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**United States
Department of
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Agricultural
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Index-Catalogue of Medical and Veterinary Zoology

COMMUNAL HEALTH INSTITUTE OF PARASITOLOGY
FORMERLY THE INSTITUTE OF PARASITOLOGY
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Supplement 23, Part 6,
Section A. Subject Headings: A-I

Parasite-Subject Catalogue
Subject Headings and Treatment

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Supplement 23, Part 6,
Section A. Subject Headings: A-I

Parasite-Subject Catalogue Subject Headings and Treatment

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Preface

The Index-Catalogue of Medical and Veterinary Zoology is an index to the world's literature on animal parasites of animals, including man. The Catalogue is distributed to qualified individuals and libraries throughout the world without charge. It has been maintained in cumulative files since 1892. Only the Author Catalogue has been published in its entirety. A revision of the Author Catalogue of the Index-Catalogue of Medical and Veterinary Zoology, consisting of Parts 1 to 18, was published during the period 1932-52. Beginning in 1953, a series of supplements designed to publish the backlog was initiated. This was completed with Supplement 6, published in 1956. From 1956 to 1964, supplements covering authors A to Z were issued on an annual basis.

Beginning with Supplement 15, the Parasite-Subject Catalogues, containing indices to the author references, have been issued. The Author Catalogues of Supplements 15-21 continued the format of previous supplements. Users should note that for each reference in the Author Catalogues of these supplements the author(s) plus the date and letter (e.g., Smith, J.; and Doe, L., 1978 b) are the key to all items in the Parasite-Subject Catalogues derived from that reference. In other words, when using the Parasite-Subject Catalogues of Supplements 15-21, it is necessary to consult the Author Catalogue of the corresponding supplement for complete bibliographic information.

Commencing with Supplement 22, basic bibliographic information is included with each entry in Parts 2-7. It should be emphasized, however, that it will still be useful to consult the Author Catalogue for a variety of other information that may be found there: Title of the reference, translated title, language of text and summaries, issue date, library from which the original may be obtained, published corrections, related references by the same author, and other miscellaneous information.

Each supplement consists of the following parts:

- Part 1, Authors: A-Z
- Part 2, Parasite-Subject Catalogue: Parasites: Protozoa
- Part 3, Parasite-Subject Catalogue: Parasites: Trematoda and Cestoda
- Part 4, Parasite-Subject Catalogue: Parasites: Nematoda and Acanthocephala
- Part 5, Parasite-Subject Catalogue: Parasites: Arthropoda and Miscellaneous Phyla
- Part 6, Parasite-Subject Catalogue: Subject Headings and Treatment
- Part 7, Parasite-Subject Catalogue: Hosts

Users should bear in mind that this is an Index-Catalogue, not a treatise, and should not expect to find reasons for any given entry. Nor does citing of synonymy mean that it is necessarily correct. The same statement holds for hosts, locations, localities, authorship of taxa, designation of new taxa, etc. These items are cited as given by the author(s) of the publication being indexed.

The information included in any given supplement represents only the publications that have been indexed in that supplement; and therefore, exclusion of, or limited entries for, any given author or parasite has no significance. No pretension is made for completeness, and assistance in correcting errors or obtaining additional information is appreciated. Reprints of papers on parasitology are requested.

Explanatory Note

Author Catalogue

The Author Catalogue (Part 1 of each supplement) contains full bibliographic information for each publication indexed during the compilation of that supplement. A symbol for the library from which the original publication may be obtained is given at the end of each entry, e.g., Wa, Wm, Wc, etc. A key to these library symbols may be found in Supplements 10 and 20. A list of serial abbreviations new to our files is published at the beginning of each Author Catalogue.

Parasite Catalogues

The Parasite Catalogues (Parts 2-5 of each supplement) are divided by parasite phyla (Protozoa, Trematoda, etc.). They are arranged alphabetically by genera, parasitic diseases, and higher taxa and then alphabetically by species within genera. Entries under each heading are in turn arranged alphabetically by authors and then chronologically for each author. Each entry consists of the name of the parasite or parasitic disease, the author(s) of the publication, date, abbreviated title of the publication, volume, number, inclusive pages, and a subheading. Illustrations of parasites are indicated by the word *illus.* following the name of the parasite.

→ *Fasciola hepatica*, *illus.*

→ Smith, J.; and Doe, L., 1978, J.
Parasitol., v. 64 (1), 30-38

→ *Fasciola hepatica*, white mice, successful vaccination with culture incubate antigens and antigens from sonic disruption of immature worms

→ Subheading

→ Bibliographic information (author line(s))

→ Entry term

A variety of information is found indented beneath the author line(s) of each entry: Classification, hosts, synonymy, keys, treatment, etc. Subheadings are guides to the subject matter of the publication.

- (1) **Classification:** In entries based on systematic articles, the subheading may give the higher taxa in which the taxon has been placed or it may list the lower taxa included in a higher taxon.
- (2) **Hosts:** The only hosts recorded are those that pertain directly to the author's own work. Scientific host names are used unless the author gives only common names, in which case the host names are given exactly as in the original publication.

However, when host common names are in Cyrillic alphabet languages, host Latin names are assigned and listed instead of the common name; these are in square brackets [].

Locations of parasites in or on hosts are given in parentheses (). Where a host-parasite relationship is well known, a host may be given under a parasite name and not in the Host Catalogue; this applies particularly to parasites of medical and veterinary importance and of worldwide distribution. A + before the host name on the parasite entry means that no host entry was made for this particular reference.

- (3) **Synonymy:** Usually only those synonyms which the author indicates as new, or which are new to the files of the Index-Catalogue of Medical and Veterinary Zoology, are given.
- (4) **Keys:** The subheading "key" indicates that the name is included in a taxonomic key.
- (5) **Treatment:** When there are several antiparasitic agents mentioned in a publication, a general term is used in the subheading, e.g., anthelmintics, insecticides, protozoacides. However, in the Treatment Catalogue, all agents tested by the investigator(s) are listed.
- (6) **Geographic Distribution:** When there are multiple hosts and geographic localities, the appropriate locality is recorded after each host name; when the hosts of a parasite are all from one locality, they are recorded as "all from" this locality.
- (7) **Other Subject Matter:** Phrases indicate other subject matter discussed (e.g., immunity, metabolism, morphology, etc.).

Subject Headings Catalogue

The Subject Headings Catalogue (the first section of Part 6 of each supplement) is an alphabetic arrangement of entry terms from a controlled list of subject headings. Each entry consists of the subject heading, bibliographic information, and a subheading reflecting the information contained in the paper. Subject headings with numerous entries are separated into alphabetized subdivisions, e.g.,

Immunity
Immunity, Agglutination
Immunity, Allergy

Treatment Catalogue

In the Treatment Catalogue (a section of Part 6 of each supplement), all entries referring to one antiparasitic agent are grouped under one heading (regardless of the name used by the investigator) and are then listed alphabetically by author. Other names for the same agent are cross-referenced to the name used for filing. When generic and chemical names are available, preference is given to those names as headings

rather than to trade names or code numbers and letters. Code number designations for compounds are entered in the Number Index in numerical order and cross-referenced to the name under which they are listed in the alphabetical section. Salts of a compound are usually grouped together, e.g., piperazine adipate, piperazine citrate, etc., are all listed under Piperazine. Sometimes verifying synonymy of drug names is impossible; consequently, groupings and cross-references are not always authenticated although as many as possible have been checked with reliable sources. In some instances, the cross-references are based entirely on information in papers indexed and verification was not possible. Foreign language terminology has been anglicized where feasible. Chemosterilants, Molluscicides, and Repellents are entered under these three collective headings and not under the individual chemical. The format is the same as the parasite entries: Entry term (in this case, drug name), bibliographic information, and subheading.

Host Catalogue

The Host Catalogue (Part 7 of each supplement) is arranged alphabetically by genera, common names, and higher taxa and then alphabetically by species within genera. Nominate subspecies are interfiled with the species. Entries under each heading are in turn arranged alphabetically by author(s) and then chronologically for each author. The format is the same as in the other Catalogues, i.e., entry term (in this case, host name), bibliographic information, and subheading. Indented beneath the author line(s) of each host entry are all the parasites of a particular phylum that were reported from this host in the paper in question. Body locations of these parasites will be found in parentheses () either in the subheading or with the host name. Experimental infection is reported as such. When there are multiple parasites and geographic localities, the appropriate locality is recorded after each parasite name; when the parasites from this host are all from one locality, they are recorded as "all from" this locality. When authors use only common names of hosts, scientific names are cautiously supplied from authoritative sources after

careful consideration. Cross-references from the common name used by the author to the scientific name supplied by the Index-Catalogue are filed among the host entries. Such supplied names are given in square brackets []. If a scientific name cannot be supplied, English common names are used. Scientific names or English common names are always supplied for common names in Cyrillic alphabet languages, and no cross-references are made. Surveys of parasites of humans and domestic animals are often indexed under geographic headings and entered in Part 6, Subject Headings, in addition to appearing in the Host Catalogue. In this case, all parasite phyla are grouped under the same host entry, and individual parasite entries are not included in the Parasite Catalogue.

Visitors are welcome to come to the Animal Parasitology Institute to use the cumulative files. Arrangements should be made in advance for lengthy visits.

All correspondence should be addressed to:

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Beltsville, Maryland 20705 U.S.A.

It is hoped that these Catalogues will serve as a useful tool to workers in the field of parasitology. Users are requested to preserve the Catalogues, since they are not designed for general distribution and the edition is limited.

The compilers thank the staffs of the National Agricultural Library, the National Library of Medicine, and all other libraries who have aided us invaluablely by making publications available to us.

Trade names are used in this publication solely for the purpose of providing specific information. Mention of a trade name does not constitute a guarantee or warranty of the product by the U.S. Department of Agriculture or an endorsement by the Department over other products not mentioned.

Abnormalities. See Anomalies.

Abortion

Abbitt, B.; and Ball, L., 1978, *Theriogenology*, v. 9 (3), 267-270

Trichomonas fetus, pregnant cows, diagnosis by culture of cervical-vaginal mucus, not completely accurate but may identify cows at high risk of abortion

Abortion

Arnaudov, D., 1978, *Vet. Med. Nauki*, v. 15 (7), 38-46

Toxoplasma gondii strains isolated from rabbits and fetuses of ewes which miscarried, comparative studies of virulence and immunogenicity, role in etiology of abortion

Abortion

Barnett, D.; et al., 1977, *Proc. 20. Ann. Meet., Am. Ass. Vet. Lab. Diagn.* (Minneapolis, Minnesota, Oct. 16-18), 131-138

Sarcocystis cruzi, pregnant cows (exper.), abortion, practical diagnosis using maternal caruncle

Abortion

Bittencourt, A. L.; and Barbosa, H. S., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (4), 257-259

Chagas disease, human, survey of aborted fetal remains for incidence of congenital transmission: Brazil

Abortion

Contreras B., J. A., 1976, *Vet. Med. Rev.* (2), 190-195

fascioliasis, cattle, high incidence of abortions reduced substantially and permanently following bilevon R treatment and snail control programme using copper sulphate: Venezuela

Abortion

Correa, W. M.; Correa, C. N. M.; and Fanton, E. B., 1978, *Arq. Escola Vet. Univ. Fed. Minas Gerais*, v. 30 (3), 303-305

fetal *Babesia equi* as cause of abortion: Brazil, imported from Florida, USA

Abortion

Correa, W. M.; Correa, C. N. M.; and Gottschalk, A. F., 1978, *Canad. J. Comp. Med.*, v. 42 (2), 227-228

Anaplasma marginale-induced bovine abortions, 5 case reports, stress-lowered resistance may predispose cows to abortion: Sao Paulo State, Brazil

Abortion

Erber, M.; Meyer, J.; and Boch, J., 1978, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 91 (20), 393-395

Sarcocystis suicanis, pregnant sows (exper.), abortion, clinical manifestations

Abortion

Francis, R. C., 1975, *Singapore Med. J.*, v. 16 (4), 290-296

toxoplasmosis, Asian women especially Malays, high infection rate, high rates of abortion, congenital anomalies, and low birth-weight infants, possible relationships: Singapore

Abortion

Gomes, U. A.; et al., 1978, *Bol. Ofic. San. Panamer.*, v. 85 (4), 315-324

Toxoplasma gondii, human, no evidence of relationship between chronic or latent infection and fetal losses: Clinical Hospital, Ribeirao Preto-University of Sao Paulo Medical School

Abortion

Hunter, B., 1979, *Canad. Vet. J.*, v. 20 (4), 116 [Letter]

Toxoplasma, sow, case of spontaneous abortion

Abortion

Kolev, V.; et al., 1977, *Vet. Med. Nauki*, v. 14 (3), 54-60

Protozoa as cause of abortions in cows: district of Rousse

Abortion

Kraft, B.; and Stoll, L., 1978, *Deutsche Tierarztl. Wchnschr.*, v. 85 (12), 470-472

Toxoplasma gondii, sheep, survey of toxoplasma antigens in placenta of aborted material, indirect immunofluorescence: Federal Republic of Germany

Abortion

Lopes, E. R.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (3), 165-169

Trypanosoma cruzi, human, prenatal infection which resulted in miscarriage, clinical report: Triangulo Mineiro, Minas Gerais, Brasil

Abortion

Munday, B. L., 1978, *Internat. J. Parasitol.*, v. 8 (4), 285-288

Toxoplasma gondii, calves (exper.), pregnant cows (exper.), antibody titres measured by indirect fluorescent antibody test and dye test, *Toxoplasma* reisolated from 3 of the 5 calves, no abortions in pregnant cows and no evidence of infection in their calves, concluded that cattle do not readily acquire persistent *T. gondii* infections

Abortion

Nicolas, J. A.; et al., 1978, *Rev. Med. Vet.*, Toulouse, v. 129 (3), 407-413

toxoplasmosis, sheep, cause of abortion, still-birth, fetal mummification, retained placenta, and lung disturbances in new-born lambs, preventive vaccination discussed

Abortion

Paniagua Andres, M. C., 1978, *Rev. Iber. Parasitol.*, v. 38 (1-2), 117-134

Toxoplasma gondii, sheep, prevalence and distribution, not cause of high proportion of abortions: Provincia de Leon, Espana

Abortion

Stalheim, O. H.; et al., 1976, *Proc. 19. Ann. Meet., Am. Ass. Vet. Lab. Diagn.*, 317-328

Sarcocystis from dogs, experimental infections in pregnant Holstein-Friesian and Jersey cows, clinical signs, serology, abortions and fetal deaths

Abortion

- Swift, B. L.; and Paumer, R. J., 1978, Theriogenology, v. 10 (5), 395-403
Anaplasma marginale, heifers in third trimester of gestation (exper.), fetus and dam arterial blood gases and pH measured, death of fetus following progressive parasitic anemia in dam is attributed to fetal anoxia

Abortion

- Swift, B. L.; Settlemyre, J., jr.; and Thomas, G. M., 1978, Theriogenology, v. 10 (6), 481-485
Anaplasma marginale, pregnant heifers (exper.), oxytetracycline hydrochloride, did not abort and transplacental transmission did not occur

Abortion

- Teruel, J. R.; and Nogueira, J. L., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (4), 239-244
 Chagas disease, highly endemic area for chronic infection, comparison of infected and non-infected women showed no differences in fetal losses: nordeste do Estado de Sao Paulo

Abortion

- Waldeland, H., 1978, Norsk Vet.-Tidsskr., v. 90 (6), 383-389
Toxoplasma gondii, sheep, clinical disease, abortion, review

Abscess

- Kulke, H.; Liehr, H.; and Braun, H., 1977, Roentgen-Berichte, v. 6 (1), 77-82
Echinococcus, human hepatic abscessed cysts, assessment of size, character and surrounding changes by means of endoscopic retrograde cholangio-pancreatography before surgical intervention is attempted

Abscess

- McLeod, R.; et al., 1979, Am. J. Med., v. 67 (4), 711-714
Toxoplasma gondii, immunosuppressed man, brain abscesses, sulfadiazine, pyrimethamine, and calcium leukovorin, case report

Abscess

- Parichatikanon, P.; et al., 1976, Siriraj Hosp. Gaz., v. 28 (2), 204-214
Ascaris lumbricoides, children, case reports, pathology, fatal infections caused by multiple abscesses in livers, worms in intra-hepatic bile ducts, common bile duct, and along gastrointestinal tract

Abscess, Amebic

- Adamali, N.; Wankya, B. M.; and Maneno, J., 1978, East African Med. J., v. 55 (9), 414-416
 amoebic liver abscesses, humans, safe and rapid diagnosis with infusion tomography, case reports: Kenya

Abscess, Amebic

- Aikat, B. K.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 188-192
 amoebiasis, human hepatic infections, pathology and pathogenesis based on autopsies, mechanisms of evolution and extension of infections, vascular complications, immunological aberrations

Abscess, Amebic

- Bieler, E. U.; et al., 1974, South African Med. J., v. 48 (8), 308-320
 amoebiasis, human hepatic abscess, scintigraphic evaluation of disease processes and healing rate

Abscess, Amebic

- Biersack, H. J.; et al., 1977, Therapiewoche, v. 27 (20), 4033-4038
 amoebic hepatic abscess, humans, diagnosis and treatment analysis using scintigraphy

Abscess, Amebic

- Bindschadler, D. D., 1974, Rocky Mountain Med. J., v. 71 (7), 387-389
E[ntamoeba] histolytica, man, development of systemic amoebiasis with multiple hepatic abscesses 9 months after successful treatment for amoebic dysentery with metronidazole, systemic infection successfully treated with combination of emetine and chloroquine followed by an intensive course of metronidazole, chloroquine and chloramphenicol

Abscess, Amebic

- Blyth, D. F.; and Pirie, D., 1978, South African Med. J., v. 53 (4), 147-148
Entamoeba histolytica, man, left upper lobe lung amoebic abscess without established hepatic amoebiasis: South Africa

Abscess, Amebic

- Breathnach, S. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 647-649
Entamoeba histolytica, man, hepatic abscess, serial ultrasonography used to monitor resolution of abscess after therapy with amoebicides

Abscess, Amebic

- Brøndum Nielsen, K.; and Hegedus, V., 1975, ROEFO, v. 123 (5), 486-488
Entamoeba histolytica, amoebic liver abscess complicated by biliary fistula, clinical case report, diagnostic difficulties and suggestions for diagnostic awareness in non-endemic areas: Pakistani worker in Denmark

Abscess, Amebic

- Brown, R. C.; et al., 1978, Postgrad. Med. J., London (634), v. 54, 555-558
 amoebic hepatic abscesses, human, case reports, potential causes of delay in diagnosis, value of ultrasonic scanning of liver in differential diagnosis

Abscess, Amebic

- Buenemann, H.; Petersen, F.; and Mohr, W., 1976, ROEFO, v. 124 (2), 126-131
 human hepatic amoebiasis, size, localization and course of hepatic abscesses evaluated by scintigraphy and compared with clinical symptoms, use in diagnosis

Abscess, Amebic

- Cerecedo Cortina, V. B.; et al., 1975, Rev. Med. Hosp. Gen., Mexico, v. 38 (7), 447-457
 human hepatic amoebic abscess, diagnosis, peritoneoscopy

Abscess, Amebic

- Cerecedo Cortina, V. B.; et al., 1975, Rev. Med. Hosp. Gen., Mexico, v. 38 (8), 527-531
 human hepatic amoebic abscess, ultrasonographic studies on 50 patients, usefulness of this diagnostic method

Abscess, Amebic

Chang, W. Y.; and Chen, C. Y., 1970, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 69 (12), 670-708

liver abscesses, human amoebic and pyogenic, extensive clinical review: Taiwan

Abscess, Amebic

Cowan, D. B.; and Houlton, M. C.; 1978, South African Med. J., v. 53 (12), 460-461

Entamoeba histolytica, pregnant woman, rupture of hepatic amoebic abscess, guidelines for management: South Africa

Abscess, Amebic

Cowie, R. L.; et al., 1972, South African Med. J., v. 46 (49), 1917-1920

amoebic liver abscess, human, prevalence, clinical aspects, diagnostic significance of erythrocyte sedimentation rate and aspiration biopsy: Cape Town

Abscess, Amebic

Cowie, R. L.; et al., 1979, South African Med. J., v. 55 (11), 402 [Letter]

amoebic liver abscess in patients presenting with jaundice or raised serum bilirubin, suggestions for management

Abscess, Amebic

DeBakey, M. E.; and Jordan, G. L., jr., 1977, Surg. Clin. North Am., v. 57 (2), 325-337

amoebic and pyogenic hepatic abscesses, human, extensive clinical review

Abscess, Amebic

Duma, R. J.; Helwig, W. B.; and Martinez, A. J., 1978, Ann. Int. Med., v. 88 (4), 468-473
unidentified free living amoeba (appeared to be neither Naegleria or Acanthamoeba-Hartmannella, but possibly Vahlkampfiidae) causing fatal primary amoebic meningoencephalitis and brain abscess in diabetic woman, case report, discussion of identifying characteristics, classification and speciation, public health implications: rural Smithfield, Virginia

Abscess, Amebic

Dutta, G. P.; and Narain, L., 1978, Indian J. Exper. Biol., v. 16 (7), 838-840

Entamoeba histolytica, influence of pH on amoebicidal activity of 6 systemically active amoebicides against axenically grown parasites, results indicate that acidic pus in amoebic liver abscesses may account for some therapeutic failures

Abscess, Amebic

Eggleston, F. C.; et al., 1978, Surgery, St. Louis, v. 83 (5), 536-539

amoebic liver abscess, human, indications for surgery, operative procedures, and surgical results, 83 cases reviewed

Abscess, Amebic

El-Hennawy, M.; and Abd-Rabbo, H., 1978, J. Trop. Med. and Hyg., v. 81 (4), 71-73

human hepatic amoebiasis, previous history of corticosteroid therapy as a precipitating factor in abscess formation

Abscess, Amebic

Freeman, A. L.; and Bhoola, K. D., 1976, South African Med. J., v. 50 (14), 551-553

Entamoeba histolytica, man, hepatic abscess complicated by pneumopericardium, case report of fatal infection

Abscess, Amebic

Galvis Espinosa, H.; and Clavijo, G., 1975, Temas Escogidos Gastroenterol., v. 18, 137-175
amoebic hepatic abscess, human, analysis of 53 cases, diagnosis, therapy, complications

Abscess, Amebic

Harrison, H. R.; Crowe, C. P.; and Fulginiti, V. A., 1979, Pediatrics, Am. Acad. Pediat., v. 64 (6), 923-928

Entamoeba histolytica, children, hepatic abscesses, clinical and epidemiologic features, case reports

Abscess, Amebic

Intrasupt, S.; et al., 1976, Siriraj Hosp. Gaz., v. 28 (1), 1-7

amoebiasis, human hepatic abscess, diagnosis and differentiation from hepatic carcinoma using ^{99m}Tc technetium citrate as a liver scanning agent

Abscess, Amebic

Krettek, J. E.; Goldstein, L. I.; and Busuttill, R. W., 1979, Surg., Gynec. and Obst., v. 148 (4), 552-556

amoebic hepatic abscess, humans, presentations of acute abdomen, differential diagnosis, surgical management, case reports

Abscess, Amebic

Lundberg, Y., 1976, Scand. J. Infect. Dis., v. 8 (4), 263-265

amoebiasis, human hepatic abscess, comparison of angiography and scintigraphy as diagnostic methods

Abscess, Amebic

Meira, D. A.; Mello Albuquerque, F. J.; and de Campos, E., 1976, Rev. Hosp. Clin., S. Paulo, v. 31 (3), 187-193

E[ntamoeba] histolytica, human hepatic abscess, symptoms, diagnosis, medical management, suggested therapy

Abscess, Amebic

Migasena, P.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 355-361

amoebic liver abscess, humans, serum protein patterns compared with those of patients with primary hepatoma using electrophoresis and immunoelectrophoresis, value in differentiating conditions

Abscess, Amebic

de Moraes, J. A. D.; and Medina, E., 1976, Ann. Soc. Belge Med. Trop., v. 56 (6), 449-458

amoebic abscess, human hepatic, visualization by tomographic scans after injection of triiodide benzoic acid, useful for diagnosis and treatment evaluation

Abscess, Amebic

Olaeta Elizalde, R., 1973, Rev. Cir. Hosp. Juarez, Mexico (187-188), v. 44, 1972-1973, 54-58

human amoebiasis, diagnostic review of complications resulting from hepatic abscess (secondary bacterial infections, rupture of abscess into thoracic or abdominal cavity, infection spread to skin, formation of cerebral abscess)

Abscess, Amebic

Ou Tim, L.; Segal, I.; and Hodgkinson, H. J., 1979, South African Med. J., v. 55 (5), 179-184

amoebic liver abscess, patients presenting with jaundice, diagnostic problems resulting in delayed therapy often result in fatal complications of hepatic and renal failure

- Abscess, Amebic**
 Peyron, J. P.; Marbot, J. M.; and Pascal-Suisse, P., 1979, *Med. Trop.*, v. 39 (6), 665-673
 amoebic liver abscesses, humans, echography in diagnosis, treatment and surveillance, especially useful in tropical areas
- Abscess, Amebic**
 Powell, S. J.; Sutton, J. B.; and Lautre, G., 1973, *South African Med. J.*, v. 47 (34), 1555-1557
Entamoeba histolytica, 34-year-old man, case report, haemobilia as complication of amoebic liver abscess, diagnosis by arteriography: King Edward VIII Hospital, Durban
- Abscess, Amebic**
 Ramachandran, S.; et al., 1979, *Trop. Doctor*, v. 9 (4), 164-167
 amoebiasis, human hepatic abscess, criteria of diagnostic significance and scoring system for making diagnosis: Sri Lanka
- Abscess, Amebic**
 Ramachandran, S.; and Edwards, R., 1978, *J. Trop. Med. and Hyg.*, v. 81 (2-3), 40-41
Entamoeba histolytica, possible role of hepatic trauma in the genesis of hepatic abscess, clinical case report on man who developed acute abscess 2 weeks after receiving severe blow over hepatic region of thorax: Sri Lanka
- Abscess, Amebic**
 Robles Gonzalez, L.; et al., 1973, *Rev. Fac. Med., Univ. Nac. Auton. Mexico*, an. 16, v. 16 (2), 87-90
 human hepatic amoebic abscess with involvement of the pericardium, case report, diagnosis by fluoroscopy and radioisotopes, surgical management
- Abscess, Amebic**
 Roumy, G.; et al., 1978, *Rev. Franc. Gastro-Enterol.* (139), 41-48
 human hepatic amoebic abscess, isotope scanning and ultrasonography, combined use for differential diagnostic workup and for therapeutic evaluations
- Abscess, Amebic**
 Shabot, J. M.; and Patterson, M., 1978, *Am. J. Digest. Dis.*, n.s., v. 23 (2), 110-118
Entamoeba histolytica, 10-year (1966-1976) retrospective analysis of 15 patients with amoebic liver abscess: clinical findings, laboratory findings, management, case reports: Texas
- Abscess, Amebic**
 Shamov, Iu. A., 1978, *Terap. Arkh.*, v. 50 (8), 70-73
 amoebiasis, human hepatic abscess, diagnosis, medical and surgical therapy, case reports
- Abscess, Amebic**
 Shkurovich, M.; et al., 1974, *Rev. Med. Hosp. Gen., Mexico*, v. 37 (4), 215-227
 human hepatic amoebic abscess, diagnosis, ultrasound
- Abscess, Amebic**
 Sobrinho, J. B.; Lima, I. A.; and Brito, E. S. (filho), 1976, *Rev. Brasil. Cirug.*, v. 66 (1-2), 19-24
Entamoeba histolytica, human hepatic abscess, hospital case survey, clinical and surgical treatment review: Manaus, Brazil
- Abscess, Amebic**
 Tovar, A. V.; et al., 1973, *Rev. Fac. Med., Univ. Nac. Auton. Mexico*, an. 16, v. 16 (1), 31-35
 human amoebic hepatic abscess, analysis of hospital cases (presenting symptoms, complications, medical and surgical management): Mexico
- Abscess, Amebic**
 Triger, D. R., 1978, *J. Trop. Med. and Hyg.*, v. 81 (4), 54-59
Entamoeba histolytica, human, liver abscess, clinical features, response to therapy, review of 24 cases: Wessex region, Great Britain
- Abscess, Amebic**
 Viana, R. L.; Rego, A.; and Antunes Dias, F. A., 1974, *South African Med. J.*, v. 48 (3), 96-100
 amoebiasis, human hepatic abscess, scanning and selective hepatic arteriography for diagnosis and differential diagnosis
- Abscess, Amebic**
 Wijesundera, P. de S., 1974, *Sri Lanka J. Surg.*, v. 1 (1), 71-74
 amoebic hepatic abscess, humans, intermuscular rupture into abdominal wall with presentation of appendicitis, diagnostic problems, case reports: Sri Lanka
- Absorption. [See also Osmosis; Permeation]**
- Absorption, Host**
 Areekul, S.; et al., 1979, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 10 (1), 67-72
Fasciolopsis buski, schoolchildren, serum vitamin B12, serum and red cell folate, serum vitamin B12 and serum folate binding proteins, vitamin B12 absorption
- Absorption, Host**
 Bloch, K. J.; et al., 1979, *Gastroenterology*, v. 77 (5), 1039-1044
Nippostrongylus brasiliensis-infected rats, normal rats, or rats subjected to mild systemic anaphylaxis, intestinal uptake of protein antigen (bovine serum albumin)
- Absorption, Host**
 Brasitus, T. A., 1979, *Am. J. Med.*, v. 67 (6), 1058-1065
 parasitic infections, association with malabsorption in man
- Absorption, Host**
 Castro, G. A.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 500-507
Trichinella spiralis-infected rats, inadequate oral food intake rather than changes in basal metabolism or intestinal pathophysiology accounts for weight loss during intestinal phase of infection
- Absorption, Host**
 Castro, G. A.; Hessel, J. J.; and Whalen, G., 1979, *Parasite Immunol.*, v. 1 (4), 259-266
Trichinella spiralis, rats, intestinal fluid movement in response to primary or secondary infection, relationship to prevention of worm establishment

Absorption, Host

Fraga Filho, C.; Sobral, D. T.; and Arantes, M. R., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (4), 209-216

Strongyloides stercoralis, humans, investigation of intestinal malabsorption associated with parasitism; correlation between higher levels of fecal fat content in persons with morphologic changes in small bowel thus indicating that fecal fat content is reliable index of malabsorption

Absorption, Host

Khovanskikh, A. E.; Krylov, M. V.; and Ludinova, I. C., 1974, *Parazitologiya*, Leningrad, v. 8 (2), 164-169

Eimeria tenella, chickens (exper.), absorption of iron in small intestine, concentration of iron in tissues and organs

Absorption, Host

Mahalanabis, D.; et al., 1978, *Am. J. Clin. Nutrition*, v. 32 (2), 313-318

Ascaris lumbricoides and/or *Giardia lamblia*, children, marked impairment of vitamin A absorption

Absorption, Host

Major, J. R., jr.; and Ruff, M. D., 1978, *J. Parasitol.*, v. 64 (4), 706-711

Eimeria spp.-infected broilers, reduced disaccharidase activity in region of intestine with maximum infection, this reduction is related to both time and severity of infection and can contribute to overall reduction in nutrient absorption

Absorption, Host

Mettrick, D. F.; Budziakowski, M. E.; and Podesta, R. B., 1979, *Canad. J. Physiol. and Pharmacol.*, v. 57 (8), 882-886

Moniliformis dubius, net fluxes of electrolytes in infected rat intestine

Absorption, Host

Mettrick, D. F.; and Jackson, D. J., 1979, *J. Helminth.*, v. 53 (3), 213-222

Hymenolepis diminuta-infected rats, vitamin malabsorption in intestine

Absorption, Host

Noblet, G. P.; and Turk, D. E., 1979, *Poultry Science*, v. 58 (2), 392-403

Eimeria spp., chicks (exper.), no interference with overall intestinal absorption of ^{14}C -glucose, results suggest probable compensatory absorption by sections of intestine unaffected by a specific coccidial infection

Absorption, Host

Pucci, H.; et al., 1978, *AMB, Rev. Ass. Med. Brasil.*, v. 24 (10), 341-344

S[chistosoma] mansoni, humans, fat absorption, increased presence of eggs and granulomatous lesions in deep layers of small intestine, suggest possible selective malabsorption of certain nutrients

Absorption, Host

Ruff, M. D., 1978, *Proc. 1978 Maryland Nutrition Conf. Feed Mfr. (University of Maryland, Mar. 16-17)*, 32-37

Eimeria spp., chickens, anticoccidials, safe withdrawal times, effect on nutrient malabsorption

Absorption, Host

Tomkins, A. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 33-36

Giardia lamblia, intestinal colonization by enterobacteria as possible important contributing factor in the development of malabsorption in humans with giardiasis

Absorption, Host

Vengesa, P. B.; and Leese, H. J., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (1), 55-60

Schistosoma mansoni-infected *Mus musculus*, body weight, food intake, small intestinal weight, impaired transport of glucose, 3-0-methylglucose, sorbitol, and fluid, surface appearance of intestinal mucosa

Absorption, Host

Waslien, C. I.; Farid, Z.; and Darby, W. J., 1973, *South. Med. J.*, v. 66 (1), 47-50

schistosomiasis and/or hookworm, humans, study of blood and nutrition losses shows that drain on iron, protein, zinc and vitamin A stores plus other pathology is more significant as cause of malnutrition than abnormality of absorption functions: Egypt

Absorption, Parasite

Arme, C.; and Walkey, M., 1970, *Symposia Brit. Soc. Parasitol.*, v. 8, 79-101

physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)

Absorption, Parasite

Bahr, J. M.; Frayha, G. J.; and Hajjar, J. J., 1979, *Comp. Biochem. and Physiol.*, v. 62A (2), 485-489

Echinococcus granulosus, mechanism of cholesterol absorption by secondary hydatid cysts

Absorption, Parasite

Batson, B. S., 1979, *Internat. J. Parasitol.*, v. 9 (6), 495-503

Gastromermis boophthorae, body wall, ultrastructural changes during life cycle, alkaline phosphatase activity, relationship to transcuticular uptake of nutrients

Absorption, Parasite

Belinskaia, V. Z., 1973, *Parazitologiya*, Leningrad, v. 7 (2), 116-122

Hypoderma bovis, 1st stage larvae, uptake of amino acids tagged with radioisotopes

Absorption, Parasite

Bogitsh, B. J.; and Carter, O. S., 1979, *Tr. Am. Micr. Soc.*, v. 98 (3), 454-460

Schistosoma mansoni schistosomules grown in vivo and in vitro, transmission and scanning electron microscopic and cytochemical studies, tegumental changes following penetration, onset of phosphatase activity

Absorption, Parasite

Boonlayangoor, P.; et al., 1978, *Exper. Parasitol.*, v. 45 (2), 225-233

Entamoeba histolytica, uptake of purine bases and nucleosides during axenic growth

Absorption, Parasite

Carlisle, S.; and Weisberg, L. S., 1978, *Exper. Parasitol.*, v. 44 (1), 124-135

Schistosoma mansoni-infected mice injected via tail vein with peroxidase and Thorotrast, subsequent appearance of these tracers in worms, results suggest that tegumental and cecal surfaces may exhibit functional specialization in male vs. female worms

Absorption, Parasite

Catto, B. A.; and Ottesen, E. A., 1979, *Comp. Biochem. and Physiol.*, v. 63C (2), 235-242
Schistosoma mansoni schistosomules, serotonin uptake

Absorption, Parasite

Chen, S. N.; and Howells, R. E., 1979, *Exper. Parasitol.*, v. 47 (2), 209-221
Brugia pahangi, uptake and incorporation of adenosine, no evidence of uptake or incorporation of thymidine

Absorption, Parasite

Chen, S. N.; and Howells, R. E., 1979, *Parasitology*, v. 78 (3), 343-354
Brugia pahangi, infective larvae, juveniles, adults, uptake in vitro of dyes, monosaccharides, and amino acids, no evidence for oral uptake, transcuticular route of uptake may be employed

Absorption, Parasite

Cornford, E. M.; and Oldendorf, W. H., 1979, *J. Parasitol.*, v. 65 (3), 357-363
Schistosoma mansoni, new method for measuring transintestinal uptake in individual male and female worms, application to uptake of glucose and selected amino acids

Absorption, Parasite

Davydov, O. N.; and Kosenko, L. Ia., 1972, *Parazitologiya*, Leningrad, v. 6 (3), 269-273
Ligula intestinalis, amylase in surface layer of plerocercoids and in media in which they were maintained, findings suggest capability of membrane (contact) digestion and absorption of food from host

Absorption, Parasite

Dixon, K. E., 1976, *Rice Univ. Studies*, v. 62 (4), 69-80
digenetic trematodes, structure of tegument is adapted to serve the two primary functions of absorption and protection and represents a compromise between demands of the two roles, analysis and integration of already available information, implications for view of method of formation of tegument and for nomenclature of tegumental structures

Absorption, Parasite

Druchenko, E. A.; and Berdyeva, G. T., 1974, *Parazitologiya*, Leningrad, v. 8 (3), 208-211
Ascaris suum, *Ascaridia galli*, amino acid uptake

Absorption, Parasite

Ernst, S. C., 1976, *Rice Univ. Studies*, v. 62 (4), 81-95

Schistosoma mansoni, alkaline phosphatase activity, biochemical and cytochemical studies, tegumental localization suggests that invaginations of tegument represent surface compartments that would facilitate digestive absorptive activity of this membrane, localization of nonspecific alkaline phosphatase activity in tegument but not in esophagus or cecum may reflect regional differences in function

Absorption, Parasite

Graeber, K.; and Storch, V., 1978, *Ztschr. Parasitenk.*, v. 57 (2), 121-135
Echinorhynchus gadi, *Acanthocephalus lucii*, *Polymorphus minutus*, *Macracanthorhynchus hirudinaceus*, integument, stereoscan and transmission electron microscopy; invaginations of outer plasma membrane increase absorptive surface, morphometric analysis, comparisons with other parasitic helminths and with rotifers

Absorption, Parasite

Gruenberg, J.; Sharma, P. R.; and Deshusses, J., 1978, *European J. Biochem.*, v. 89 (2), 461-469

Trypanosoma brucei, D-glucose transport

Absorption, Parasite

Halton, D. W., 1978, *Parasitology*, v. 76 (1), 29-37
Diclidophora merlangi, trans-tegumental absorption of L-alanine and L-leucine, worm is clearly sanguinivorous and digests blood in well-developed gut but may also be capable of supplementing this diet with low molecular weight organic nutrient absorbed directly from sea water via tegument

Absorption, Parasite

Hansen, B. D., 1979, *Exper. Parasitol.*, v. 48 (2), 296-304
Trypanosoma gambiense, membrane transport of amino acids

Absorption, Parasite

Higgins, J. C., 1979, *Parasitology*, v. 78 (1), 99-106
Bucephalus haimeanus, metacercaria, role of tegument in absorption of particulate material and small molecules in solution

Absorption, Parasite

Irvin, A. D.; and Young, E. R., 1979, *Internat. J. Parasitol.*, v. 9 (2), 109-114
Babesia spp. of cattle and mice, uptake and metabolism of tritiated nucleic acid precursors

Absorption, Parasite

Koshkina, L. A., 1973, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 23, 82-86
Ascaridia galli, in vitro glucose uptake greater in worms from vaccinated chicks than in those from unvaccinated chicks, increased parasite surface permeability possibly related to increased host immunity

Absorption, Parasite

Kuo, M., 1979, J. Chinese Soc. Vet. Sc., v. 5 (1), 9-18
Hymenolepis diminuta, hydrolysis and transport of nucleotides

Absorption, Parasite

Law, S. S.; and Mukkada, A. J., 1979, J. Protozool., v. 26 (2), 295-301
Leishmania tropica, transport of L-proline and its regulation in promastigotes

Absorption, Parasite

Love, R. D.; and Uglem, G. L., 1978, J. Parasitol., v. 64 (3), 426-430
Hymenolepis diminuta, effect of Na⁺ exchange on ²²Na⁺ and ³H-glucose influx rates, estimation of coupling coefficient for these molecules

Absorption, Parasite

Lussier, P. E.; Podesta, R. B.; and Mettrick, D. F., [1979], J. Parasitol., v. 64 (6), 1978, 1139-1140
Hymenolepis diminuta, effect of ATP on amino acid transport

Absorption, Parasite

Lussier, P. E.; Podesta, R. B.; and Mettrick, D. F., [1979], J. Parasitol., v. 64 (6), 1978, 1140-1141
Hymenolepis diminuta, amino acid transport and osmoregulation

Absorption, Parasite

MacInnis, A. J.; et al., 1976, Rice Univ. Studies, v. 62 (4), 183-204
Hymenolepis diminuta, specificity of amino acid transport in the tapeworm and in its rat host

Absorption, Parasite

Midgley, M., 1978, Biochem. J., v. 174 (1), 191-202
Crithidia fasciculata, α-aminoisobutyrate transport: effect of incubation medium composition, kinetic studies, effects of inhibitors, studies on respiration, metabolic effects of inhibitors

Absorption, Parasite

Moczon, T., 1975, Acta Parasitol. Polon., v. 23 (1-11), 135-145
Hymenolepis diminuta, mature specimens, distribution of glycogen and of radioactive compounds accumulated in tissues after incubation in glucose-¹⁴C₁₋₆

Absorption, Parasite

Moczon, T., 1977, Acta Parasitol. Polon., v. 24 (20-27), 269-274
Hymenolepis diminuta, oncospheres and cysticercoids, glycogen distribution, accumulation of radioactive compounds after incubation in glucose-¹⁴C₁₋₆

Absorption, Parasite

Parshad, V. R.; and Guraya, S. S., 1978, J. Helminth., v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients

Absorption, Parasite

Parshad, V. R.; and Guraya, S. S., 1978, Vet. Parasitol., v. 4 (2), 111-120
4 helminth spp., comparison of phosphatases, effects of pH, various chemicals, and some anthelmintics on enzyme activity, anthelmintics may affect absorptive process in worms by virtue of their effect on phosphatase system at absorptive surfaces

Absorption, Parasite

Pavlov, A. V., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 115-118
Ascaris suum, effect of ATP, B₆ and DNP on transport of amino acid in vitro

Absorption, Parasite

Pavlov, A. V.; and Koshkina, L. A., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 119-121
Ascaris suum, role of nervous system in regulating cuticular permeability

Absorption, Parasite

Podesta, R. B., 1978, Canad. J. Zool., v. 56 (11), 2344-2354
Hymenolepis diminuta, characterization in vitro of H⁺ secretion and H⁺:Na⁺ exchange

Absorption, Parasite

Podesta, R. B., 1979, J. Parasitol., v. 65 (4), 669-671
Hymenolepis diminuta, galactose influx by tissue slices, cellular Na⁺ and ATP effects

Absorption, Parasite

Rao, L. N., 1976, J. Zool. Soc. India, v. 26 (1-2), 1974, 63-67
Tremiorchis ranarum, Ganeco tigrinum, Mehraorchis ranarum, presence of only one type of epithelial cells in caeca performing both functions of secretion and absorption

Absorption, Parasite

Rembold, H.; and Langenbach, T., 1978, J. Protozool., v. 25 (3, pt. 2), 404-408
Crithidia fasciculata, effect of colchicine on cell membrane and on biopterin transport

Absorption, Parasite

Rutherford, T. A.; Webster, J. M.; and Barlow, J. S., 1977, Canad. J. Zool., v. 55 (11), 1773-1781
Mermis nigrescens, parasitic larval stages, physiology of glucose and amino acid uptake in vitro

Absorption, Parasite

Schanbacher, L. M.; and Beames, C. G., jr., 1978, J. Parasitol., v. 64 (1), 89-92
Ascaris suum, fate of endogenous carbohydrate of worm intestine in vitro, effect of exogenous glycogen and trehalose upon rate of movement of 3-O-methylglucose across sac preparations of intestine

Absorption, Parasite

Schraw, W. P.; and Vaughan, G. L., 1979, Exper. Parasitol., v. 48 (1), 15-26
Trypanosoma lewisi, membrane function (glucose, leucine, and potassium transport; 5'nucleotidase activity) in dividing and ablastin-inhibited trypanosomes

Absorption, Parasite

Shishova, O. A.; and Mazhuga, N. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 151-157

Ascaris suum, adult, protein absorption through mouth only (serum protein, casein, gelatin); addition of intact protein to culture media unnecessary because there is no cuticular absorption and only limited intestinal absorption

Absorption, Parasite

Shishova-Kasatochkina, O. A.; Mazhuga, N. A.; and Sokhina, L. I., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 211-217

Ascaridia galli, in vitro uptake of proteins of differing structure and biological importance; absorption through intestine rather than through cuticle

Absorption, Parasite

Srivastava, M.; and Gupta, S. P., 1977, Ztschr. Parasitenk., v. 52 (1), 61-68

Isoparorchis hypselobagri adults, in vitro survival in various salt solutions and with addition of various sugars; carbohydrates absorbed through cuticle, pH 9 optimum

Absorption, Parasite

Starling, J. A.; and Fisher, F. M., jr., 1978, J. Comp. Physiol., B, v. 126 (3), 223-231

Moniliformis dubius, carbohydrate transport: post-absorptive phosphorylation of glucose and role of trehalose in accumulation of endogenous glucose reserves

Absorption, Parasite

Uglen, G. L.; and Levy, M. G., 1976, Rice Univ. Studies, v. 62 (4), 225-236

Taenia crassiceps larvae, absorption kinetics of some purines, pyrimidines, and nucleosides

Absorption, Parasite

Uglen, G. L.; Love, R. D.; and Eubank, J. H., 1978, Exper. Parasitol., v. 45 (1), 88-92

Hymenolepis diminuta, membrane transport of glucose and β -methylglucoside, value of using β -methylglucoside to study mechanism of hexose transport and accumulation in this parasite

Absorption, Parasite

Wittrock, D. D., 1978, Ztschr. Parasitenk., v. 57 (2), 145-154

Quinqueserialis quinqueserialis, ultra-structure of ventral papillae, suggested that papillae are nonglandular and may function in nutrient absorption

Acarology, Manuals and textbooks

Flechtmann, C. H. W., 1975, Elementos de acarologia, 344 pp., illus.

Acarology, Manuals and textbooks

Lhoste, J., 1975, La protection de l'homme contre les insectes, [189] pp.

Acarology, Manuals and textbooks

McDaniel, B., 1979, How to know the mites and ticks, 335 pp., illus.

mites and ticks, collecting and mounting techniques, morphology, analytical keys

Acarology, Manual and textbooks

Nikol'skii, S. N.; and Potemkin, V. I., 1975, Parazitol. i Invaz. Bolezni Sel'skokhoz. Zhi-vot. (Abuladze), 130-169
veterinary acarology

Accidental parasites. See Parasites, Accidental.Adaptation. [See also Ecology; Evolution; Genetics; Host-parasite relationships]

Adaptation

Albaret, J. L.; and Leger, N., 1978, Ann. Parasitol., v. 53 (6), 617-622

Schistosoma mansoni, miracidial chetotoxic index, changes during adaptation of human strain to white mice, use in determining human vs. murine character of natural infections in Guadeloupe, possibility of murine strains infecting humans

Adaptation

Augustine, P. C.; and Chute, A. M., 1978, J. Parasitol., v. 64 (3), 425

Histomonas meleagridis, in vitro-adapted strain, inhibition of growth in conventional or gnotobiotic turkeys inoculated with 5 spp. of bacteria used for in vitro cultivation, supports hypothesis that in vitro culturing decreased in vivo reproductive capability by gradual elimination of more virulent organisms

Adaptation

Barrera, A., [1967], Rev. Soc. Mexicana Hist. Nat., v. 27, 1966, 67-88

Hoplopsyllus pectinatus sp. nov., *Cediopsylla tepolita* sp. nov., adaptation to host (a Paleolaginae rabbit), striking examples of slow evolution of parasites of "living fossil"; similarity with *Nesolagobius callosus*, a species of flea parasitic on *Nesolagus* (an Old World Paleolaginae rabbit) belonging to the Archaeopsyllinae rather than the Spilopsyllinae

Adaptation

Belozerov, V. N., 1973, Parazitologiya, Lenin-grad, v. 7 (1), 14-18

Dermacentor silvarum, capability of adult females to engorge depends on temperature and photoperiod at prefeeding stage, thus certain conditions may give rise to a form of diapause as a seasonal adaptation

Adaptation

Bethel, W. M.; and Holmes, J. C., 1977, Canad. J. Zool., v. 55 (1), 110-115

larval acanthocephalans induce behavioral alterations in infected amphipods which render them more vulnerable to predation by definitive hosts

Adaptation

Bonner, T. P., 1979, J. Parasitol., v. 65 (5), 745-750

Nippostrongylus brasiliensis, changes in structure of intestinal cells during development from free-living to parasitic stages

Adaptation

Brooks, D. R., 1979, System. Zool., v. 28 (3), 299-307

host-parasite coevolution, context and extent, phenomena of co-accommodation and co-speciation

Adaptation

- Chabaud, A. G.; et al., 1978, *Malayan Nature J.*, v. 31 (3), 189-195
Nematoda of Tragulidae, evolutionary origins and adaptations to hosts in relation to host evolution

Adaptation

- Chesnova, L. V., 1978, [Concepts of evolution in parasitology. (Historical essay)], 162 np.
evolution of parasitism, concepts, historical review

Adaptation

- Cooper, C. L.; Crites, J. L.; and Sprinkle-Fastkie, D. J., 1978, *J. Parasitol.*, v. 64 (1), 102-107
Eustrongylides tubifex, third and fourth stage larvae, prevalence and intensity in various age/size classes of fish hosts with possible factors responsible for results, site selection, emergence behavior in relation to temperature as possible adaptation to facilitate rapid infection of definitive warm-blooded host upon ingestion of infected fish

Adaptation

- Daggett, P. M.; Decker, J. E.; and Janovy, J., 1978, *Comp. Biochem. and Physiol.*, v. 59A (4), 363-366
6 insect trypanosomatids, attempted adaptation to mice, alteration of component elements of excreted factors (EF) produced by the 3 adapted species, EF components of *Leishmania donovani* isolates differ with varying infectivity for hamsters

Adaptation

- Damian, R. T., 1979, *Host-Parasite Interfaces*, 103-126
molecular mimicry in biological adaptation, host-parasite and other biological relationships, review

Adaptation

- Dubovskaia, A. Ia., 1973, *Parazitologiya*, Leningrad, v. 7 (2), 154-159
cestodes from different classes of vertebrate hosts, proteolytic activity, enzymatic activity of parasite is adapted to intensity of host's metabolism

Adaptation

- Gagarin, V. G., 1979, *Ekologiya*, Sverdlovsk (1), 69-75
nematodes, 4 ecological groups (hydrobiont, saprobiont, phytohelminth, zoohelminth), typical morphophysiological traits

Adaptation

- Healy, J. A., 1979, *Genetica*, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycero-phosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Adaptation

- Healy, J. A., 1979, *Parasitology*, v. 78 (1), 7-17
Ixodes ricinus, samples from several Irish localities and from spring and autumn ticks collected in one area, detection by electrophoresis of very high allelic variation at locus coding for phosphoglucumutase, allele frequency patterns, both spatial and temporal genetic differentiation exist, possible use of this polymorphism in population and taxonomic studies, possible adaptive significance of polymorphism in autecology of parasite

Adaptation

- Khotenovskii, I. A., 1972, *Parazitologiya*, Leningrad, v. 6 (1), 79-82
Pleurogenidae, *Lecithodendriidae*, *Plagiorchiidae*, parasites of bats, morphology, localization in host intestine, and mode of feeding briefly discussed as examples of adaptive evolution of the parasites

Adaptation

- Kozar, M., 1974, *Acta Parasitol. Polon.*, v. 22 (35-44), 473-483
Fasciola hepatica, rats immunized with *Galba truncatula* or *Lymnaea tomentosa* antigens, subsequently infected with metacercariae from same or different snail species, intensity of infection, liver anatomico-pathological changes, parasite adaptation to snails discussed

Adaptation

- Kulmamatov, E. N.; and Azimov, D. A., 1978, *Dokl. Akad. Nauk UzSSR* (8), 66-67
Protostrongylus spp. in sheep (exper.), changes in blood cells and proteins and protein fractions during course of infection as indication of host-parasite interrelationships and adaptations

Adaptation

- Kutzman, R. S.; and Roberts, J. F., 1978, *Comp. Biochem. and Physiol.*, v. 61C (1), 141-145
Crithidia fasciculata, adaptation to growth in presence of carbonyl cyanide m-chlorophenylhydrazine is apparently a physiological and not a genetic phenomenon, retention of this adaptive ability reported only in free-living protozoa is of interest from evolutionary standpoint and when considering drug resistance to parasitic protozoa

Adaptation

- Lewis, P. D., jr., 1978, *Proc. Montana Acad. Sc.*, v. 37, 1977, 70-81
Leucochloridium variae, *L. cyanocittae*, *Neoleucochloridium problematicum*, adaptations for transmission from molluscan to avian hosts: avoidance of desiccation, transit through avian host, transfer to avian host by mimicry

Adaptation

- Michajlow, W. K., 1972, *Parazitologiya*, Leningrad, v. 6 (1), 3-7
Euglenoidina of Copepoda, stages of adaptation to parasitism

Adaptation

Nizami, W. A.; Siddiqi, A. H.; and Waseemul Islam, M., 1977, Ztschr. Parasitenk., v. 52 (3), 275-280

digenetic trematodes, comparative quantitative studies of acetylcholinesterase in seven species, higher quantities in species inhabiting gastrointestinal tract than in those parasitizing liver or swimbladder, apparently a biochemical adaptation to counteract peristalsis

Adaptation

Panin, V. Ia., 1974, Parazitologiya, Leningrad, v. 8 (2), 93-97

Dicrocoeliidae, cenogenetic adaptations and their role in evolution

Adaptation

Paraense, W. L.; and Correa, L. R., 1978, J. Parasitol., v. 64 (5), 822-826

Schistosoma mansoni, differential susceptibility of Biomphalaria tenagophila (exper.) from 20 localities to infection with single strain of schistosome, results seem to indicate that process of adaptation between S. mansoni and B. tenagophila is evolving, possible expansion of schistosomiasis to wide South American area where B. tenagophila occurs

Adaptation

Randolph, S. E., 1979, Parasitology, v. 79 (1), 141-156

Ixodes trianguliceps, manifestations of acquired resistance in successive infestations of unnatural host (laboratory mice) but not of natural host (Apodemus sylvaticus), relevance to concept of host-parasite co-evolution and to tick population regulation

Adaptation

Rechav, Y.; et al., 1978, Nature, London (5678), v. 275, 310-311

Ixodes neitzi, attraction of adult ticks to twigs marked by Oreotragus oreotragus (klipspringer antelope), first report of tick species locating its mammalian host by detecting specific chemical compound(s) used by host as communicative marking signal thus increasing probability of survival in that particular habitat

Adaptation

Shishova-Kasatochkina, O. A.; and Leutskaja, Z. K., 1979, [Biochemical aspects of the interrelationships of helminths and their hosts. Metabolism of proteins, vitamins, and steroids in the process of parasitization], 279 pp., illus.

Adaptation

Shishova-Kasatochkina, O. A.; Sokhina, L. I.; and Abramova, T. G., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 250-255

Ascaris suum, Ascaridia galli, Contracaecum aduncum, urease activity and ureogenesis in relation to class of host, analogy between some specific metabolic processes of the host and its parasite

Adaptation

Strazhnik, L. V.; and Davydov, O. N., 1975, Parazitologiya, Leningrad, v. 9 (1), 37-46

3 spp. of fish cestodes, glycogen content of parasites and host tissues, seasonal changes in glycogen content of parasites; effect of experimental exposure to various temperatures on parasite glycogen content, motor activity, and duration of life; effect of starvation on glycogen content of parasite and host in aquariums at various temperatures

Adaptation

Timm, R. M.; and Cook, E. F., 1979, Am. Midland Naturalist, v. 101 (1), 211-217

Cuterebra fontinella on Peromyscus leucopus noveboracensis, mean infestation rate, host age, reduced size of reproductive organs in infected subadult males, no effect on adult male and female reproductive organs, parasite-host relationships are stable and parasite and host have evolved coadaptations and a tolerance for each other

Adaptation

Urdaneta-Morales, S.; and Rueda, I. G., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 241-250

Trypanosoma cruzi, Venezuelan strain vs. Brazilian strain, factors influencing adaptation, development, and multiplication in local race of Rhodnius prolixus vectors (laboratory strain originally from state of Guarico, Venezuela)

Adhesion. See Attachment.

Adoptive immunity. See Immunity, Passive.

Afghanistan

Barus, V.; Kullmann, E.; and Tenora, F., 1972, Acta Scient. Nat. Brno, n. s., v. 6 (1), 46 pp. nematodes of vertebrates, 1962-1967, zoogeography

Afghanistan

Buck, A. A.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (1), 61-70
human poly-parasitism, epidemiological and ecological features, occurrence, frequency, and distribution of multiple infections in rural communities, age and sex patterns: Chad; Peru; Afghanistan; Zaire (Plasmodium falciparum; P. malariae; P. vivax; Toxoplasma gondii; Fasciolidae; Echinococcus granulosus; Ascaris lumbricoides; Taenia saginata; Hymenolepis nana; Entamoeba histolytica)

Agar diffusion; Agar gel diffusion. See Immunity, Precipitation.

Age. [See also Longevity; Survival and viability]

Age of host

Agrawal, M. C.; and Dutt, S. C., 1978, Indian J. Animal Sc., v. 48 (3), 232-234
Stephanofilaria zaheeri, prevalence in buffaloes of different age groups: Jabalpur

Age of host

Al'betova, L. M., 1975, Izvest. Gosudarstv. Nauchno-Issled. Inst. Ozer. i Rech. Ryb. Khoziaistva, Leningrad, v. 93, 105-107
Proteocephalus exiguus, seasonal and age dynamics in [Coregonus]: Tiumen oblast

Age of host

- Allamand M., J.; and Lemus B., J., 1977, Rev. Med. Chile, v. 105 (7), 439-442
human pulmonary echinococcosis, surgical management of 450 cases, cyst localization, age and sex distribution of patients, surgical complications, criteria for surgical methods employed

Age of host

- Amin, O. M.; and Burrows, J. M., 1977, J. Fish. Research Bd. Canada, v. 34 (3), 325-331
Echinorhynchus salmonis in fishes, seasonal distribution and development, sex ratio, distribution in host intestine, host age and sex, pathogenicity: southwestern Lake Michigan

Age of host

- Anderson, M. J. D.; and Griffin, J. F. T., 1979, Internat. J. Parasitol., v. 9 (3), 229-233
Taenia crassiceps, rats, differences in susceptibility to infection and development of immunocompetence in relation to host strain and age

Age of host

- Anderson, R. M.; and May, R. M., 1979, Parasitology, v. 79 (1), 63-94
Schistosoma spp. infections within snail populations, prevalence, spatial and temporal heterogeneity, duration of larval development and its dependence on temperature, mortality rates of infected and uninfected hosts; comparison of observed patterns with model predictions; new age-prevalence model, predictions compared with observed patterns; implications for overall transmission dynamics

Age of host

- Appleton, G. L.; Arlian, L. G.; and Boise, P. C., 1979, Ohio J. Sc., v. 79 (3), 136-138
Dirofilaria immitis, dogs, prevalence with respect to several factors (source, breed, age, sex, etc.): Dayton, Ohio area

Age of host

- Arbuckle, J. B. R.; and Khalil, L. F., 1978, Vet. Rec., v. 102 (10), 207-210
Thelazia skrjabini, T. gulosa, cattle (eyes), seasonal prevalence, increase during late June, July, and August, 1976, more common in cattle 21-39 months old than in those under 21 months: Surrey abattoir, England

Age of host

- Armstrong, D. A.; and Armstrong, J. L., 1974, Proc. National Shellfish Ass., v. 64, 68-72
haplosporidan in Tresus capax, incidence of infection observed by the presence of cysts in host tissue, age of host, pathology: Yaquina Bay, Oregon

Age of host

- Arzube R., M. E.; and Voelker, J., 1978, Tropenmed. u. Parasitol., v. 29 (3), 275-277
paragonimiasis, humans, incidence survey (1972-1976) by age and sex: Ecuador

Age of host

- Assoku, R. K. G., 1979, Bull. Animal Health and Prod. Africa, v. 27 (1), 29-39
blood parasites, livestock, incidence in relation to host sex and age and to husbandry and management practices: Accra Plains, Ghana

Age of host

- Atangana, S.; et al., 1979, Med. Trop., v. 39 (5), 537-543
onchocerciasis, malaria, humans, epidemiological and vector survey; no evidence of schistosomiasis but potential vectors are present; little evidence of Toxoplasma gondii: lac de retenue de Bamendjin, Cameroun

Age of host

- Ayala, S. C.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 411-416
Haemoproteus, Plasmodium, and hippoboscids ectoparasites of Zenaida auriculata caucae, infection patterns and dove population dynamics, seasonal prevalence: Cauca River valley, Colombia

Age of host

- Bagchi, K.; Bazaz Malik, G.; and Sharma, M. I. D., 1978, Indian J. Med. Research, v. 68, 917-922
Plasmodium vivax, human, determination of antibody titres using indirect haemagglutination test, relationship to host age

Age of host

- Bain, S. A.; and Kelly, J. D., 1977, N. Zealand Vet. J., v. 25 (1-2), 27-28
Anoplocephala perfoliata, survey of prevalence in horses, seasonal occurrence, no significant differences between ages or sexes of host: abattoir, South Auckland

Age of host

- Baker, M. R., 1978, Canad. J. Zool., v. 56 (5), 1026-1031
Oswaldocruzia pipiens, development and transmission in amphibians, prevalence and intensity in different months and in different host size classes: near Guelph, Ontario

Age of host

- Bartoli, P.; and Prevot, G., 1978, Ann. Parasitol., v. 53 (2), 181-193
Maritrema misenensis, ecological conditions required for life cycle, different intermediate hosts utilized in lagoon vs. marine habitat, method of infestation of second intermediate host, variation in parasitism of second intermediate host in relation to season and age and sex of host: region de Brusc, Provence, France

Age of host

- Baruffa, G.; and Alcantara Filho, A., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (3), 140-144
Trypanosoma cruzi, rural people, serological prevalence survey by complement fixation: South Region of Rio Grande do Sul State, Brazil

Age of host

- Bashirov, R. G., 1975, Vet. Nauka--Proizvod., Trudy, Minsk, v. 13, 129-134
nematodes, trematodes, cattle, age and seasonal dynamics on specialized farms: Belorussia

Age of host

Beard, T. C., 1978, Lancet, London (8079), v. 2, 30-32

Echinococcus granulosus, strain endemic to Australia and New Zealand, theory that latent period between infection and diagnosis is only a few years rather than that most cysts diagnosed in adults resulted from infection in childhood as had previously been thought

Age of host

Beck, J. T., 1979, Parasitology, v. 79 (3), 431-449

Probopryus pandalicola-infected *Palaemonetes paludosus*, distribution, infection levels by site and season and by host sex and size, parasite burden, regulation of host-parasite (parasitic castrator) interactions: Florida

Age of host

Beveridge, I.; Kummerow, E.; and Wilkinson, P., 1979, Austral. Vet. J., v. 55 (4), 204-205 [Letter]

Onchocerca lienalis, cattle (gastro-splenic ligament), prevalence, age and sex of host: north Queensland

Age of host

Beverley, J. K. A.; Henry, L.; and Hunter, D., 1978, Research Vet. Sc., v. 24 (2), 139-146
Toxoplasma gondii, 1-, 8-, and 10-day-old piglets (exper.), serological findings, tissue cysts, reactive changes in lymphoid tissue, incidence and severity of inflammatory lesions, organs affected; *T. gondii* more virulent in younger piglets due to delayed maturation of host lymphoid system during first week of life

Age of host

Beverley-Burton, M.; and Pippy, J. H. C., 1978, Environment. Biol. Fish., v. 3 (2), 211-222

Anisakis simplex in *Salmo salar*, sites of infection, prevalence, variation in mean numbers of larvae per fish in relation to host's sex, age, geographic locality, and year and season of capture; mean numbers as biological indicator of host stock composition: 14 sampling stations, North Atlantic

Age of host

Bezubik, B.; Pucilowska, A.; and Borowik, M., 1970, Acta Parasitol. Polon., v. 18 (27-41), 435-440

helminths of sheep, survey, comparison of infection in young and old age classes: Bialystok Palatinate, Poland

Age of host

Bezubik, B.; Sinski, E.; and Swietlikowski, M., 1970, Acta Parasitol. Polon., v. 18 (27-41), 441-451

gastrointestinal nematodes, *Strongyloides papillosus*, *Dictyocaulus filaria*, *Moniezia* sp., seasonal dynamics in different age classes of sheep in relation to nilverm treatment

Age of host

Bezubik, B.; Stankiewicz, M.; and Chomicz, L., 1970, Acta Parasitol. Polon., v. 18 (13-26), 299-303

coproscopic examination of sheep, extensiveness of helminth infection in different host age groups and in different seasons of year, results compared with previously published post-mortem examinations of sheep in same area: Carpathian Mountains

Age of host

Bezubik, B.; Stankiewicz, M.; and Sinski, E., 1974, Acta Parasitol. Polon., v. 22 (35-44), 441-446

helminths, sheep, coproscopical examinations, comparison with earlier post-mortem studies, host age and sex: Olecko and Kumielsk, Poland

Age of host

Blas, B. L.; et al., 1979, Japan. J. Exper. Med., v. 49 (2), 107-115

Schistosoma japonicum, school children, annual incidence and prevalence measured from records of routine examinations at various schools, host age: Dagami Area, Leyte, Philippines

Age of host

Blewett, D. A.; and Adam, K. M. G., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 513-522

Babesia divergens, cattle, data for host age and antibody incidence and titre analyzed using 3 epidemiological models to estimate rates of gain and loss of antibody: Scotland

Age of host

Bobkova, A. F., 1971, Nauch. Trudy, Nauchno-Issled. Vet. Inst., v. 9, 86-90

dictyocaulosis, cattle, infection in relation to age of calves and time of year on pasture

Age of host

Boch, J.; Mannewitz, U.; and Erber, M., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (6), 106-111

Sarcocystis suihominis, *S. suicanis*, occurrence in slaughter pigs of different ages; trypsin digestive method more reliable diagnosis than trichinoscopy, species differentiation: slaughterhouses in South Germany

Age of host

Boghen, A. D., 1978, Canad. J. Zool., v. 56 (11), 2460-2462

parasites of *Homarus americanus*, prevalence in different host size classes: Northumberland Strait, southern Gulf of St. Lawrence

Age of host

Boiko, V. A.; Aiupov, A. S.; and Ivliev, V. G., 1973, Parazitologiya, Leningrad, v. 7 (6), 536-540

Ornithomya avicularia on birds, host size, age, habitat, and colonial vs. solitary habit, seasonal dynamics; possible role in circulation of virus of tick-borne encephalitis: Middle Povolzh'e

Age of host

Bortone, S. A.; Bradley, W. K.; and Oglesby, J. L., 1978, J. Fish Biol., v. 13 (3), 337-350

copepods of *Menidia* spp., incidence, intensity, host-parasite interactions with emphasis on effect of host size, season, habitat, inter- and intraspecific parasite competition on host

Age of host

Bozdech, V.; and Moronfoye, I. S., 1974, Ang. Parasitol., v. 15 (3), 141-150

Schistosoma haematobium, humans, incidence, host age and sex, hematuria: Kaduna, northern Nigeria

Age of host

- Bray, R. S.; and Anderson, M. J., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 427-431
Plasmodium falciparum, prevalence and density in pregnant women (by age/parity), recently pregnant women, and infants, malarial antibody levels in cord blood, seasonal variations: The Gambia

Age of host

- Brink, J. D.; de Wet, J. S.; and van Rensburg, A. J., 1975, South African Med. J., v. 49 (35), 1441-1443
Toxoplasma gondii, serological survey of pregnant women by racial and age groups; results in relation to epidemiology, complications, diagnosis and treatment: Bloemfontein area

Age of host

- van den Broek, W. L. F., 1979, J. Fish Biol., v. 14 (4), 371-380
 copepods of *Merlangius merlangus* and *Platichthys flesus*, seasonal changes in levels of infestation related to annual migrations of young fish into estuary, localization, age of host: Medway Estuary, Kent

Age of host

- van den Broek, W. L. F., 1979, J. Fish Biol., v. 14 (4), 395-402
Cryptocotyle lingua, incidence and intensity of infection, seasonal levels of infection prove useful indicators to migratory movements of individual fish populations, localization, host age: Medway Estuary, Kent

Age of host

- Buchwalder, R.; Hiepe, T.; and Israel, L., 1977, Monatsh. Vet.-Med., v. 32 (23), 898-901
Ascaridia galli, chickens (exper.), age and breed resistance

Age of host

- Buck, A. A.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (1), 61-70
 human poly-parasitism, epidemiological and ecological features, occurrence, frequency, and distribution of multiple infections in rural communities, age and sex patterns: Chad; Peru; Afghanistan; Zaire

Age of host

- Buck, A. A.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (2), 137-144
 human poly-parasitism, types of combinations, relative frequency, and associations of multiple infections, age and sex patterns: Chad; Peru; Zaire

Age of host

- Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1978, Tropenmed. u. Parasitol., v. 29 (3), 253-268
 polyparasitism, humans, epidemiology, assessment of combined effects of multiple infections on an individual's state of health, comparative analysis of field data obtained from several tropical villages

Age of host

- Burney, M. I.; Wazir, Y.; and Lari, F. A., 1979, Trop. Doctor, v. 9 (3), 110-116
 leishmaniasis, human visceral, longitudinal study in northern areas of Pakistan

Age of host

- Burns, B. R.; Lampe, R. M.; and Hansen, G. H., 1979, Am. J. Dis. Child., v. 133 (10), 1031-1034
 neonatal *Sarcoptes scabiei*, 5 case reports, distinctive clinical pattern, crotamiton treatment: William Beaumont Army Medical Center, El Paso, Texas

Age of host

- Burrough, R. J., 1978, J. Fish Biol., v. 13 (1), 19-32
Tyloodelphys clavata and *Diplostomum spathaceum* in roach, rudd, and roach/rudd hybrids, population biology, seasonal changes in incidence, intensity of infection, and frequency distribution, relationship of infection to fish size (age)

Age of host

- Butter, M. E., 1979, Bijdr. Dierk., Amsterdam, v. 48 (2), 141-155
Corallionoxia longicauda in *Meandrina meandrites*, occurrence and infestation rates in relation to depth, colony size, and environmental factors, parasite morphology, age of parasite and host, spatial distribution of parasite within colony, limited effect of parasite on host: S. W. and N. E. coasts of Curacao, Netherlands Antilles

Age of host

- Buyst, H., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 201-212
 sleeping sickness in children, epidemiologic data, age distribution, various therapeutic regimens, usefulness of antimalarial therapy administered simultaneously: Isoka, Zambia

Age of host

- Bywater, J. E.; and Kellett, B. S., 1978, Infect. and Immun., v. 21 (2), 360-364
Encephalitozoon cuniculi, existence in specific-pathogen-free rabbit colony, small-sized samples failed to reveal presence of infection with low prevalence, organism probably present in original stock of unit, possibility of establishing *Encephalitozoon*-free colony by culling all positive reactors using India ink immunoreaction test, incidence (familial, sexual, and age-related) and possible routes of transmission

Age of host

- Campbell, N. J.; Kelly, J. D.; and Dineen, J. K., 1978, Vet. Parasitol., v. 4 (4), 317-325
Fasciola hepatica, rats, functional role for gut in development of age resistance demonstrated by comparing number and development of flukes recovered following oral vs. intraperitoneal administration of encysted metacercariae

Age of host

- Canese, A.; et al., 1975, Rev. Paraguaya Microbiol., v. 10 (1), 55-66
 human intestinal parasites, statistics of extensive epidemiologic survey comparing age and sex of hosts, and socioeconomic levels in 4 geographic areas of Paraguay

Age of host

- Cannon, L. R. G., 1979, Austral. J. Marine and Freshwater Research, v. 30 (3), 365-374
 digenae trematodes in *Cerithium moniliferum*, incidence in relation to distribution, abundance, growth, and reproduction of snail population, no seasonal pattern of parasitism: Heron Island, Great Barrier Reef

- Age of host
Carneiro, J. R.; and Freitas, M. G., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (1), 49-61
gastrointestinal nematodes, calves of various ages born during rainy season: State of Goias
- Age of host
Carnevale, P.; et al., 1978, Bull. World Health Organ., v. 56 (1), 147-154
Anopheles gambiae, aggressiveness in relation to age and sex of human subjects, implications for malaria epidemiology
- Age of host
Carney, W. P.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 471-479
Entamoeba histolytica, Toxoplasma gondii, humans, serological survey using indirect hemagglutination test, prevalence of antibody titers by host age, sex, and village (altitude): Malili area, South Sulawesi, Indonesia
- Age of host
Castelino, J. B.; and Preston, J. M., 1979, Brit. Vet. J., v. 135 (2), 198-203
Fasciola gigantica, cattle, influence of breed and age on prevalence, abattoir survey: Kenya
- Age of host
de Castilho, E. A.; and da Silva, G. R., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 258-260
Trypanosoma cruzi, humans, no association found between infant prematurity and maternal Chagas infection
- Age of host
Cattan, P. E.; and George-Nascimento, M., 1978, Rev. Iber. Parasitol., v. 38 (3-4), 505-514
relationship of mean parasitic burden and frequency of Octodon degus parasitized with 4 common helminths, host sex and age: Lo Curro, a 2,5 km al N.E. de Santiago
- Age of host
Chakrabarti, A.; and Misra, S. K., 1979, Indian Vet. J., v. 56 (6), 497-500
Demodex canis, dogs, incidence in relation to season, host age, sex, and breed, clinical manifestations, in vivo and in vitro activity of several acaricides: India
- Age of host
Cheever, A. W.; et al., 1978, Am J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 55-75
Schistosoma mansoni, S. haematobium, humans, quantitative study of 400 consecutive autopsies, extrahepatic pathologic findings correlated with presence or absence of schistosome infection and with intensity of infection: Egypt
- Age of host
Chernysheva, N. B., 1973, Parazitologiya, Leningrad, v. 7 (6), 485-488
Sphaerospora cristata, plasmodia and spores found in Lota lota (kidneys), life cycle, host age, infection rate increases during winter: lake Vrevo, Leningradsk oblast
- Age of host
Chhabra, M. B.; and Mahajan, R. C., 1979, Trop. Animal Health and Prod., v. 11 (1), 27-28
Toxoplasma gondii in Bos indicus, serological survey, age and sex prevalence: Chandigarh, north India
- Age of host
Chhabra, M. B.; and Mahajan, R. C., 1979, Trop. and Geogr. Med., v. 31 (4), 499-502
Toxoplasma gondii, dogs, prevalence survey, higher antibody titers in older dogs and those with concomitant disease: Chandigarh territory, North India
- Age of host
Christensen, H. R.; and Clark, B. L., 1979, Austral. Vet. J., v. 55 (4), 205 [Letter]
Trichostrongylus axei, prevalence in replacement bulls 4 years after introduction to infected herd, observations suggest routine culling of bulls at 4 years of age to minimize transmission: north-western Queensland
- Age of host
Clayton, H. M.; and Duncan, J. L., 1979, Research Vet. Sc., v. 26 (3), 383-384
Parascaris equorum, development of immunity in foals infected at 2-4 weeks old vs. 6-12 months old reared worm-free vs. reared naturally
- Age of host
Cloutman, D. G., 1978, J. Parasitol., v. 64 (1), 170-172
Cleidodiscus pricei on Ictalurus platycephalus (gills), significant difference in intensity among different host age groups but not between males and females, seasonal abundance, possible role of immunity: Lake Norman, North Carolina
- Age of host
Colli, C.; and Schantz, P. M., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (2), 59-68
Echinococcus granulosus, mice and Meriones unguiculatus, effect of egg dose, host age, and host sex on susceptibility to primary infection, increased resistance with increased age but no differences with sex
- Age of host
Collins, W. E.; and Skinner, J. C., 1979, J. Parasitol., v. 65 (5), 827-829
Onchocerca volvulus, formalin-fixed sections of adult worms in nodules used as antigen in fluorescent antibody test, sera from endemic and nonendemic areas, different patient age groups: Ghana; Upper Volta
- Age of host
Cone, D. K.; and Anderson, R. C., 1977, Canad. J. Zool., v. 55 (9), 1410-1423
parasites of Lepomis gibbosus, prevalence and intensity in relation to host age and sex: Ryan Lake, Algonquin Park, Ontario
- Age of host
Conlogue, G.; et al., 1979, J. Parasitol., v. 65 (1), 105-108
Capillaria hepatica in Rattus norvegicus, infection rate, host age and sex, seasonal variation, possible public health implications: Hartford, Connecticut

Age of host

Cooper, C. L.; Crites, J. L.; and Sprinkle-Fastkie, D. J., 1978, *J. Parasitol.*, v. 64 (1), 102-107

Eustrongylides tubifex, third and fourth stage larvae, prevalence and intensity in various age/size classes of fish hosts with possible factors responsible for results, site selection, emergence behavior in relation to temperature as possible adaptation to facilitate rapid infection of definitive warm-blooded host upon ingestion of infected fish

Age of host

Cornille Broegger, R.; et al., 1978, *Bull. World Health Organ.*, v. 56 (4), 579-600

Plasmodium falciparum, *P. malariae*, changing patterns in humoral immune response before, during, and after application of control measures: Nigeria

Age of host

Cornille-Broegger, R.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 173-183

malaria in normal subjects and those with sickle cell trait, determination of plasma immunoglobulins and antimalarial antibodies, findings suggest that during infancy early phagocytosis of parasitized cells led to enhanced processing of antigen and hence earlier immune response to sickle cell trait

Age of host

Corrier, D. E.; and Guzman, S., 1977, *Trop. Animal Health and Prod.*, v. 9 (1), 47-51

Anaplasma marginale, *Babesia bigemina*, age at which calves in endemic area first become infected, packed cell volumes and clinical symptoms, mild clinical response and rapid recovery indicate that protection of native calves through immunization or other procedures prior to natural exposure would be of questionable value: north coast area of Colombia

Age of host

da Cunha, A. S.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (5), 289-300

Entamoeba histolytica, comparative epidemiological survey, rural vs. urban areas, highest prevalence directly related to lowest sanitary conditions, clinical manifestations, associated parasitism: Brazil

Age of host

Curca, D.; Purcherea, A.; and Caprarin, A., 1977, *Lucrar. Stiint. Agron. N. Balcescu, S. C. Med. Vet.*, v. 17, 1974, 34-38

Ascaridia galli, 100 day old roosters, spontaneous dehelminthization after 13 days indicates augmented resistance; ascorbic acid diminished in adrenal gland on thirteenth day but normal in liver and blood serum; older chickens have lesser blood changes

Age of host

Currier, R. W.; et al., 1979, *Proc. Iowa Acad. Sc.*, v. 86 (2), 41-43

Pediculus humanus capitis, outbreak in school children, epidemiology, control: Ames, Iowa

Age of host

Czaplinski, B., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 305-327

Hymenolepididae of wild *Cygnus olor*, extensiveness and intensity of infestation, age and sex of host, seasonal variation, distribution within digestive tract: Poland

Age of host

Dakkak, A.; Cabaret, J.; and Oudbib, M., 1978, *Rec. Med. Vet.*, v. 154 (9), 753-760

Hypoderma lineatum and *H. bovis* in cattle, frequency and degree of infestation, age of host, characteristics of farms, location in host, seasonal variation, recommended period for curative and for preventive treatments: Sidi-Slimane (Morocco)

Age of host

Dalton, P. R.; and Pole, D., 1978, *Bull. World Health Organ.*, v. 56 (3), 417-426

Schistosoma haematobium, water contact patterns of people according to age, sex, and type of activity, multiple regression analysis: Fatem, Lake Volta, Ghana

Age of host

Dario, J. G.; Gatmaitan, O. M.; and Aglibut, F. B., 1975, *Philippine Agric.*, v. 59 (5-6), 127-136

Cooperia sp., *Trichostrongylus* sp., *Bunostomum* sp., *Haemonchus* sp., backyard cattle, seasonal distribution, incidence greatly influenced by rainfall, soil type, and age of host, epidemiology: Batangas province, Philippines

Age of host

Dau, C. P., 1978, *Canad. J. Zool.*, v. 56 (8), 1882-1885

helminths of *Somateria fischeri* (intestinal tracts), survey by host age and sex, seasonal fluctuations in parasite numbers: Yukon-Kuskokwim Delta, Alaska

Age of host

Davydov, O. N., 1978, *Gidrobiol. Zhurnal*, v. 14 (4), 70-77

Bothriocephalus gowkongensis in cyprinid fishes, growth, development, and fertility in relation to temperature, host age and diet, and intensity of invasion

Age of host

De Jonckheere, J., 1979, *Path. Biol.*, v. 27 (8), 453-458

Naegleria fowleri, virulence for mice of isolates from environment, effect of axenic cultivation, brain passage, and passages in Vero cell cultures, mouse strain and age differences

Age of host

Devereux, D.; and Ash, L. R., 1978, *J. Parasitol.*, v. 64 (1), 115-118

Brugia pahangi in female *Meriones unguiculatus*, effects of host age at inoculation on prepatent periods, microfilaremiias, and worm burdens, results demonstrate increased susceptibility with age

Age of host

Dhar, D. N.; and Sharma, R. L., 1979, *Indian J. Animal Sc.*, v. 49 (7), 585-588

lungworms, sheep and goats (feces of both), sex and age prevalence: Tehsil Kargil, District Ladakh (Jammu and Kashmir)

Age of host

Dineen, J. K.; Gregg, P.; and Lascelles, A. K., 1978, Internat. J. Parasitol., v. 8 (1), 59-63
Trichostrongylus colubriformis, colostrum-fed vs. colostrum-deprived lambs, vaccination with irradiated larvae at weaning, results do not support proposition that feedback inhibition mediated by maternal antibody may suppress response, however lambs segregated into 'responders' and 'non-responders' suggesting that genetically determined factors play important role in responsiveness of lambs, globule leucocytes may be involved in resistance mechanism but probably not eosinophils or neutrophils

Age of host

Draeger, N.; and Mehltitz, D., 1978, Tropenmed. u. Parasitol., v. 29 (2), 223-253
Trypanosoma spp., wildlife, prevalence determined by parasitological and/or serological techniques, correlations with high and low tsetse fly density areas (for buffalo and lechwe) and with host age (for buffalo): Northern Botswana

Age of host

Dronen, N. O., jr., 1978, Am. Midland Naturalist, v. 99 (2), 330-349
Haematoloechus coloradensis, population dynamics in various hosts, incidence and intensity of infection according to host age, seasonal periodicity, life cycle efficiency: ponds in Sierra Co., New Mexico

Age of host

Drost, S.; and Brackmann, H., 1978, Monatsh. Vet.-Med., v. 33 (5), 175-178
Sarcocystis fusiformis, cattle, incidence tested by trichinostomy, age of host, seasonal variation: Sanitätsschlachtbetriebe, Nordwesten DDR

Age of host

Dubey, J. P., 1978, J. Am. Vet. Med. Ass., v. 173 (2), 192-197
Isospora ohioensis, dogs (epithelium of small intestine, cecum, and colon) (exper.), pathology in young pups, pathogenicity was greatest in newborn and suckling pups whereas older pups (40-384 days at first inoculation) acquired immunity within 1 week

Age of host

Dubey, J. P., [1979], J. Parasitol., v. 64 (6), 1978, 1021-1023
Toxocara canis, ascarid-naive pups vs. adult dogs fed graded doses of eggs to examine age-related resistance, results indicate resistance to patent intestinal infection is in part related to dose of eggs

Age of host

Dubey, J. P.; and Frenkel, J. K., 1974, Vet. Path., v. 11 (4), 350-379
Toxoplasma gondii, cats (exper.), immunity, effects of host age and corticosteroid administration; excretion of *T. gondii*, *Isospora felis*, and *I. rivolta* oocysts from cats previously infected and challenged with all three coccidia

Age of host

Dudzinski, W., 1970, Acta Parasitol. Polon., v. 18 (42-50), 573-592
Cephenemyia stimulator on *Capreolus capreolus*, incidence and intensity in relation to host age and sex, time of year, and host density, effect of parasite on host, possible control by planned reduction of host population: Poland

Age of host

Duncan, J. L.; Smith, W. D.; and Dargie, J. D., 1978, Vet. Parasitol., v. 4 (1), 21-27
Haemonchus contortus, sheep, vaccination protected against challenge and was associated with raised levels of abomasal mucus IgA and serum IgG antibodies in adults but lambs were not protected and did not have raised levels of these antibodies, possible implications for immune unresponsiveness of lambs

Age of host

Dunsmore, J. D.; and Spratt, D. M., 1979, Vet. Parasitol., v. 5 (2-3), 275-286
Filaroides osleri in wild and domestic canids (nat. and exper.), prevalence in relation to host age and sex, life history, transmission: Australia

Age of host

Edwards, G. T.; Hackett, F.; and Herbert, I. V., 1979, Brit. Vet. J., v. 135 (5), 426-432
 cestode prevalence in farm dogs, age of host: Snowdonia, U. K.

Age of host

Ejezie, G. C., 1979, Trop. and Geogr. Med., v. 31 (4), 503-508
 patterns of parasitic infection in villages of Lagos State, Nigeria

Age of host

Elbihari, S.; and Hussein, H. S., 1978, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 31 (2), 179-182
Onchocerca gutturosa, skin distribution of microfilariae in Sudanese cattle, prevalence according to host age: Khartoum, Sudan

Age of host

El-Raziky, E. H.; et al., 1977, Egypt. J. Bilharz., v. 4 (2), 195-201
Schistosoma mansoni, *S. haematobium*, humans, delayed skin test reactions to *S. mansoni* antigen were increased with host age and severity of infections and were more frequent in males, correlations with immediate skin test reactions

Age of host

Engelbrecht, H., 1975, Ang. Parasitol., v. 16 (4), 214-218
Taeniarrhynchus saginatus, human, increase in incidence 1966-1973, higher rate of infection in women and in people between 21 and 50 years old, control measures: GDR

Age of host

Ernst M., S.; and Paredes M., J., 1979, Arch. Med. Vet., Valdivia, v. 11 (1), 18-22
 hydatidosis, statistical survey of hospital cases, 1970-1975, morbidity and mortality rates, epidemiological data: province of Valdivia, Chile

Age of host

Ernst, S.; Raby, J.; and Rebolledo, C., 1977, Bol. Chileno Parasitol., v. 32 (3-4), 81-83
Sarcocystis [sp.], incidence survey in sheep, relationships of sex, age and weight to infection rate: Province of Valdivia, Chile

Age of host

Esch, G.; et al., 1976, Tr. Am. Micr. Soc., v. 95 (4), Finley Mem. Issue, pt. 2, 687-693
Epistylis-Aeromonas complex, centrarchid fish, incidence, spatial distribution of lesions, host size class (age), body condition, seasonal periodicity, influence of thermal effluent on disease: Par Pond reservoir, Savannah River Plant near Aiken, South Carolina

Age of host

Evans, N. A., 1978, J. Zool., London, v. 184 (2), 143-153
Asymphylopora kubanicum, occurrence in Bithynia tentaculata (intermediate host) and Rutilus rutilus (intestine) (definitive host), seasonal variation, age of definitive host; annual cycle of occurrence and maturation in roach due primarily to host feeding habits and water temperature: Worcester-Birmingham canal 1 km south of Stoke Works, Bromsgrove

Age of host

Eveleigh, E. S.; and Threlfall, W., 1976, Canad. J. Zool., v. 54 (10), 1694-1711
Mallophaga on Alcidae, prevalence and intensity, seasonal and annual data, burdens of adult hosts vs. chicks, distribution on host, louse population structure: Newfoundland

Age of host

Ewert, A., [1977], Rev. Biol. Trop., v. 24 (2), 1976, 261-266
Brugia malayi, infection of cats with sub-periodic Brugia showed that immature cats were more susceptible to infections but that cats of all ages could be infected, there was no demonstrable difference in susceptibility between male and female cats

Age of host

Ewert, A.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 486-490
Onchocerca volvulus, human focus, follow-up report of 1965 investigation, response to Mazzotti test given to limited numbers of persons living upstream from original focus suggests that infection may be widespread: Colombia

Age of host

Farag, H. F.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (9-10), 188-190
Fasciola spp., focus of human infection in Nile Delta, epidemiological survey, incidence of eggs in human and domestic animal feces, identification of species infecting humans not yet determined: Egypt

Age of host

Fassi-Fehri, N.; et al., 1978, Ann. Recherches Vet., v. 9 (3), 409-417
Sarcocystis spp., cattle, sheep, frequency of infestation, host age and sex, localization in various muscles, pathology: Morocco

Age of host

Fowler, J. L.; and Reeves, E. L., 1975, J. Invert. Path., v. 25 (3), 349-353
Nosema necatrix, in vivo propagation in Trichoplusia ni or Heliothis zea, effect of inoculum, temperature, and host type and age

Age of host

Franson, J. C.; et al., 1978, J. Parasitol., v. 64 (2), 303-305
gastrointestinal parasitism in coyotes, relationship of host age and sex to prevalence of infection and parasite load: Iowa

Age of host

Fujiwara, M.; and Kishimoto, S., 1979, J. Immunol., v. 123 (1), 263-268
aged (vs. young adult) mice exhibit depressed IgE, IgG, and IgM antibody response to DNP-Ascaris and depressed avidity of IgE antibody for DNP determinant

Age of host

Fuller, G. K.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 417-431
kala-azar, humans, extensive epidemiologic survey using the leishmanin skin test: south-west Ethiopia

Age of host

Gaevskaia, A. V., 1973, Parazitologiya, Leningrad, v. 7 (1), 61-66
Parvatrema timondavidi, synonymy, description, infection of molluscan intermediate host in relation to season and host age, sex, and size: region of Sevastopol, Black Sea

Age of host

Gardner, I. D.; and Remington, J. S., 1978, J. Immunol., v. 120 (3), 939-943
Toxoplasma gondii, mice, effect of age on humoral antibody response and on development of tissue cysts, results suggest age-related decrease in early immune response allows increased multiplication of organisms leading to increased cyst numbers or death

Age of host

Gardner, I. D.; and Remington, J. S., 1978, J. Immunol., v. 120 (3), 944-949
Toxoplasma gondii, mice, effect of host age on lymphocyte responsiveness and macrophage activation during acute and chronic infection, results suggest that increased 'antigenic load' in older mice with chronic infection may result in enhanced cell-mediated immunity but at extreme of old age there is major decline in inductive mechanism which overrides this stimulation

Age of host

Gaur, S. N. S.; Tewari, H. C.; and Prakash, O., 1977, Indian J. Animal Research, v. 11 (2), 109
hydatid cyst, occurrence in a suckling calf (liver), reasonable to assume infection is of prenatal origin

Age of host

Gay, C. C.; and Speirs, V. C., 1978, Austral. Vet. J., v. 54 (12), 600-601 [Letter]
parasitic arteritis, horses, age prevalence of related enteric disorders: Victoria

- Age of host
Gemmell, M. A., 1978, Bull. World Health Organ., v. 56 (3), 433-443
tapeworm control in dogs for prevention of hydatidosis and cysticercosis in sheep, monthly drug treatment program, age-specific prevalence of *Taenia hydatigena* in lambs used as principal indicator, 13-year assessment: Styx Valley and Maniototo County, South Island, New Zealand
- Age of host
Genov, G.; et al., 1975, Ang. Parasitol., v. 16 (4), 202-207
Taeniarhynchus saginatus, humans, incidence in relation to host age, sex, occupation, and geographic locality, prophylaxis: 5 districts of Bulgaria
- Age of host
Ghorbani, M.; Edrissian, G. H.; and Assad, N., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 369-371
Toxoplasma gondii, human, serological survey using indirect fluorescent antibody technique, 55.7% positive, no significant difference between sexes, highest antibody level in population 2-19 years old: northern Iran
- Age of host
Gichenok, L. A., 1979, Zool. Zhurnal, v. 58 (7), 958-968
monogeneans in *Exocoetus*, patterns of extensivity and intensivity of invasion, both increase with host age: Indian and Pacific Oceans
- Age of host
Gingrich, R. E., 1979, J. Parasitol., v. 65 (2), 288-292
Cuterebra fontinella, susceptibility of *Peromyscus leucopus* in relation to host age, dietary levels of vitamin A, and previous infestation history
- Age of host
Glickman, L. T.; Schantz, P. M.; and Cypess, R. H., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 254-258
Toxocara canis, patients with diagnostic ELISA titres vs. patients with presumed visceral larva migrans but less or no detectable antibody, clinical findings (including leucocytosis, eosinophilia, increased anti-A or anti-B isohaemagglutinin titre, elevated serum IgG level), epidemiological characteristics (age, sex, northern vs. southern residence, history of pica)
- Age of host
Gonzalez, H.; and Campano, S., 1978, Bol. Chileno Parasitol., v. 33 (3-4), 61-65
Echinococcus granulosus, humans, slaughtered domestic animals, prevalence survey, cyst locations, host age and sex, urban vs. rural sector: County of Cauquenes, Chile
- Age of host
Gottschalk, C., 1973, Ang. Parasitol., v. 14 (1), 44-54
endo-parasites of *Lepus europaeus*, seasonal dynamics, distribution according to locality, sex and age of host, economic importance of parasitism for regional hunting: Ostthuringen, DDR
- Age of host
Gregg, P.; et al., 1978, Vet. Parasitol., v. 4 (1), 35-48
Trichostrongylus colubriformis, response to vaccination of lambs aged 3 months compared to sheep aged 10 months, cause of relative unresponsiveness of lambs not known
- Age of host
Greiner, E. C.; and Mundy, P. J., 1979, J. Parasitol., v. 65 (1), 147-153
hematozoa from southern African vultures, prevalence, host age class, seasonal variation
- Age of host
Grinenko, N. V.; et al., 1976, Med. Parazitolog. i Parazitar. Bolezni, v. 45 (1), 101-103
Hymenolepis nana, patients of different age groups, dichlosal or trichlosal in divided doses, 5 or 7 day courses
- Age of host
Grove, D. I.; Valeza, F. S.; and Cabrera, B. D., 1978, Bull. World Health Organ., v. 56 (6), 975-984
Wuchereria bancrofti, dynamics of filariasis in village inhabitants, clinical, parasitological, immunological, and social aspects: village of Paraiso, Province of Catanduanes, Philippines
- Age of host
Gusev, A. V.; and Kulemina, I. V., 1971, Parazitologiya, Leningrad, v. 5 (2), 162-171
monogenetic trematodes of fish, effect of host age on size of body, chitinous armature of haptor, and copulatory complex
- Age of host
Gusev, A. V.; and Kulemina, I. V., 1971, Parazitologiya, Leningrad, v. 5 (4), 320-329
monogeneans of fish (primarily *Dactylogyrus*), variation in size of body and attachment organs, of localization on host, and of developmental cycle with respect to host age and size, taxonomic implications
- Age of host
Gutierrez, V.; Todd, A. C.; and Crowley, J. W., jr., 1979, Vet. Med. and Small Animal Clin., v. 74 (3), 369-372, 374
helminths of dairy cows, organs parasitized, prevalence, age of host, seasonal distribution; Wisconsin sugar flotation technique more sensitive than Cornell McMaster: Wisconsin
- Age of host
Haggerty, R. M.; and John, D. T., 1978, Infect. and Immun., v. 20 (1), 73-77
Naegleria fowleri in mice, infecting dose and age, sex, and strain of host are important variables that markedly affect innate resistance to infection
- Age of host
Han, T. W., 1978, Research Rep., Office Rural Develop., Min. Agric. and Fish., Korea, v. 20, 53-88
theileriosis, cattle, historical review, seasonal and host age incidence, duration of parasitaemia, relapse time; transmission of *Theileria* sp. to cattle using *Boophilus microplus* and *Haemaphysalis longicornis*; pathogenicity and immunogenicity of Korean and Japanese strains of *T. sergenti* compared: Korea

Age of host

Hanek, G.; and Fernando, C. H., 1978, Canad. J. Zool., v. 56 (6), 1247-1250
gill parasites of *Lepomis gibbosus*, role of season, habitat, host age, and sex: Ontario, Canada

Age of host

Hanek, G.; and Fernando, C. H., 1978, Canad. J. Zool., v. 56 (6), 1251-1253
gill parasites of *Ambloplites rupestris*, role of season, habitat, host age, and sex: Bay of Quinte, and West Lake, Ontario

Age of host

Harris, S.; and Thompson, G. B., 1978, J. Zool., London, v. 186 (1), 83-93
Ixodes hexagonus and *I. canisuga* populations on *Vulpes vulpes*, distribution within host population; *I. hexagonus*, seasonal dynamics, occurrence in relation to host sex, age, and behavior, effect on host: suburban London

Age of host

Hart, J. C. D.; and Raistrick, E. R., 1977, Tr. Ophth. Soc. United Kingdom, v. 97 (1), 164-167
Toxocara species, humans in 20- to 50-year age group, unioocular retinal lesions, pathology, epidemiology

Age of host

Hass, D. K., 1979, Vet. Med. and Small Animal Clin., v. 74 (7), 980, 982-986, 988
botflies and helminths of horses and ponies for 12 states, prevalence, seasonal influence, age of host: United States

Age of host

Heath, A. C. G., 1979, N. Zealand J. Zool., v. 6 (1), 141-144
ectoparasites, feral sheep, host age and sex: Campbell Island, New Zealand

Age of host

Heath, D. D.; et al., 1979, Vet. Parasitol., v. 5 (1), 51-55
Taenia ovis, immunizing potential of various developmental stages injected subcutaneously into neonatal or 16-week-old lambs, colostrum-derived antibodies apparently suppressed immunizing potential of eggs in neonatal lambs

Age of host

Hendrix, S. S., 1978, J. Parasitol., v. 64 (4), 606-612
Plagioporus hypentelii, life history and seasonal biology, effect of snail sex and age on daughter sporocyst burden, photoperiodicity of cercarial emergence: Monocacy River drainage, Pennsylvania

Age of host

Hoff, R.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 461-466
Trypanosoma cruzi, rural population, age-specific prevalence rates of parasitemia (detected by blood cultures and xenodiagnosis) vs. seroreactivity (measured by complement fixation and indirect immunofluorescence tests): northeast Brazil

Age of host

Holbrook, T. W.; and Parker, R. W., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 984-987
Naegleria fowleri incubated on chick embryos, effects of embryo age and temperature on maintenance, infectivity maintained after 25 serial passages

Age of host

Indermuehle, N. A., 1978, Schweiz. Arch. Tierh., v. 120 (10), 513-525
endoparasites, pigs, origin and age of host, mixed infections, parasitological and histopathological findings: Switzerland

Age of host

Ishimoto, Y., 1974, Japan. J. Vet. Research, v. 22 (1-2), 13-31
helminths of voles, ecology, age and sex of host, seasonal changes: Nopporo National Forest, east of Sapporo, Hokkaido, Japan

Age of host

Ito, A.; Yamamoto, M.; and Okamoto, K., 1978, Internat. J. Parasitol., v. 8 (2), 149-153
Hymenolepis nana, mice, primary infection with mouse-derived cysticercoids prepared from baby or adult mice did not make hosts immune to egg or cyst challenge whereas rapid protective immunity against egg challenge was acquired by inoculation with eggs, time course of cyst differentiation in baby mice was not different from that in adult mice

Age of host

Iunchis, O. N., 1974, Parazitologiya, Leningrad, v. 8 (3), 205-207
Dactylogyrus nasalis on *Rutilus rutilus*, occurrence in relation to season and host age, localization on host at different stages of infection, life span of worms: Lake Verkhnee Vrevo, Leningrad oblast

Age of host

Iwuala, M. O. E.; and Okpala, I., 1978, Bull. Animal Health and Prod. Africa, v. 26 (4), 339-350
ectoparasites, livestock, distribution on host body, infestation rates by host sex, age, and life style: Eastern Nigeria

Age of host

Jacobs, D. E., 1978, Vet. Ann. (18), 220-224
Uncinaria stenocephala, dogs, prevalence in kennels influenced by host age, bionomics, epidemiology, review: United Kingdom

Age of host

Jarroll, E. L., jr., 1979, Parasitology, v. 79 (2), 183-193
Bothriocephalus rarus, natural and experimental infections of copepod intermediate hosts, distribution and abundance in adult and larval *Notophthalmus viridescens*, parasite recruitment by *N. viridescens*, seasonal cycles in population structure, intensity of infection, maturation, and reproduction, effect of temperature on egg development

Age of host

Jilek, R., 1978, J. Parasitol., v. 64 (5), 951-952

Gracilisentis gracilientis and *Tanaorhamphus longirostris* in *Dorosoma cepedianum* (pyloric ceca and duodenum), definite seasonal periodicity, highly host specific, prevalence and intensity in male and female hosts of different age/size classes: Crab Orchard Lake, Williamson County, Illinois

Age of host

Joesoef, A.; and Cross, J. H., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 480-488

filariasis, human, distribution and prevalence, age-sex distribution, implications for economic development programs involving resettlement of populations from non-endemic to endemic areas: Indonesia

Age of host

Jordan, J. A.; and Noblet, R., 1978, Tech. Bull. (1069) South Carolina Agric. Exper. Station, 5 pp.

Nosema heliothidis and *Vairimorpha necatrix*, susceptibility of selected insect pests, spore dose levels necessary to obtain LD₅₀ in selected host age levels

Age of host

Jordan, P.; et al., 1978, Bull. World Health Organ., v. 56 (6), 965-973

Schistosoma mansoni, humans, results of control program that provided piped water supply to households vs. use of public standpipe system, 2-year follow-up: St Lucia

Age of host

Joseph, S. W.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 264-271

human parasitoses, prevalence by village, age, and sex: Malili area, South Sulawesi (Celebes) Province, Indonesia

Age of host

Kadulski, S., 1974, Acta Parasitol. Polon., v. 22 (12-21), 219-228

Haematopinus apri on wild *Sus scrofa*, incidence and intensity, geographic distribution, host age and sex, seasonal dynamics of infestation and louse population structure, distribution on host body: Poland

Age of host

Kadulski, S., 1975, Acta Parasitol. Polon., v. 23 (41-51), 493-535

ectoparasites of artiodactylous game animals, survey with information for some parasite species on seasonal and long-term fluctuations, age and sex of host, localization on host, economic importance: Poland

Age of host

Kairullaev, K. K., 1979, Izvest. Akad. Nauk Kazakhsk. SSR, s. Biol. (1), 19-21

Haemoproctus in *Emberiza citrinella*, percentage infected by host sex and age: central course of Ural river, Priural region, Ural oblast

Age of host

Kamiya, H., 1972, Japan. J. Vet. Research, v. 20 (3), 69-76

Echinococcus multilocularis, AKR mice, age and sex difference in host resistance

Age of host

Kang, Y. B.; et al., 1977, Research Rep. Office Rural Develop., Min. Agric. and Fish., Korea (Vet. and Sericult.), v. 19, 33-39

Dictyocaulus viviparus, cattle, survey, regional and seasonal fluctuation, yearlings more susceptible to infection than other age groups, Korean native cattle more vulnerable than other breeds

Age of host

Katz, N.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (5), 273-278

Schistosoma mansoni, children and adults living in endemic areas, influence of age and worm burden on re-infection after specific therapy: State of Minas Gerais, Brazil

Age of host

Kaushik, R. K.; Banerjee, D. P.; and Bali, M. K., 1978, Haryana Agric. Univ. J. Research, v. 8 (1), 71-74

Toxocara canis, dogs (faeces), prevalence, host age, season: Haryana State and Union Territory of Delhi, India

Age of host

Kaya, H. K.; and Moon, R. G., 1978, J. Nematol., v. 10 (4), 333-341

Heterotylenchus autumnalis in *Musca autumnalis*, occurrence, within-pasture distribution of nematode and its host, frequency of nematodes within male and female hosts, effects of nematode on host (sterility, differential feeding behavior of infected and uninfected females of different age classes), seasonal population dynamics of nematode and host: northern California

Age of host

Kennedy, C. R., 1979, J. Fish. Biol., v. 15 (2), 223-236

Eubothrium parvum in *Mallotus villosus*, distribution, incidence, intensity, seasonal changes in size and maturity, dispersion throughout its host populations (in relation to host age and size; frequency distributions), possible use as biological tag: Barents Sea; Balsfjord, close to Lyngen Fjord, North Norway

Age of host

Kisielewska, K., 1970, Acta Parasitol. Polon., v. 18 (13-26), 121-147

intestinal helminths of *Clethrionomys glareolus*, structure and seasonal dynamics of helminth groupings in a host population: Bialowieza National Park, Poland

Age of host

Kisielewska, K., 1970, Acta Parasitol. Polon., v. 18 (13-26), 177-196

intestinal helminths of *Clethrionomys glareolus*, distribution pattern of helminth species within host population, seasonal variability, age and sex structure of host population: Poland

Age of host

Kolev, G., 1978, Vet. Sbirka, v. 76 (6), 41-43
[*Eimeria* spp.], calves, heifers, and cows, age and seasonal dynamics: Loveshek okrug

Age of host

Konjevic, P., 1979, Acta Parasitol. Iugoslavi-
ca, v. 9 (2), 97-103
toxoplasmosis, human, incidence, significance
of age, eating of raw meat, contact with
domestic animals, indirect fluorescent
antibody test: Kutina, Croatia, Yugoslavia

Age of host

Kovaleva, A. A., 1966, Respublik. Mezhvedomstv.
Sborn., Akad. Nauk Ukrain. SSR, s. Biol. Moria,
32-38
parasites of *Atherina hepsetus*, invasion
extensity and intensity in relation to host
age: Black Sea (region of Karadag)

Age of host

Krafsur, E. S.; and Armstrong, J. C., 1978,
Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4),
348-356
Plasmodium falciparum, risk of contracting
malaria as derived from entomological data,
comparison with parasitologically-estimated
infection rates and seasonal distribution in
children vs. adults: Gambela, western
Ethiopia

Age of host

Krampitz, H. E.; and Baeumler, W., 1978,
Ztschr. Parasitenk., v. 58 (1), 15-33
Babesia microti in *Microtus agrestis*, preva-
lence by host sex and weight and by months,
splenomegaly, only *Ixodes ricinus* found on
mammals and vegetation of surveyed area;
experimental host range: westlich von Mun-
chen

Age of host

Kritsky, D. C.; and Leiby, P. D., 1978, J. Para-
sitol., v. 64 (4), 625-634
Echinococcus multilocularis, factors influ-
encing prevalence in *Vulpes vulpes* from 1965-
1972: effects of collection interval (sam-
pling year), climatic season, age and sex of
host, geographic region, interactions between
these variables, and definitive host preva-
lence and density: North Dakota

Age of host

Kumar, V., 1973, Ann. Soc. Belge Med. Trop., v.
53 (1), 17-23
Orientobilharzia turkestanicum, susceptibil-
ity of various aquatic snails to infection,
determination of pre-patent period in natural
vector, and observation of age-resistance of
snails to infection: Kashmir (suburb of
Srinagar)

Age of host

van der Kuyp, E., 1978, Surinaams Med. Bull.,
v. 2 (1), 16-39
human hookworm, extensive epidemiologic
survey and control campaign conducted 1956-
1972: rural Surinam

Age of host

Ladds, P. W.; Nitisuwirjo, S.; and Goddard,
M. E., 1979, Austral. Vet. J., v. 55 (10),
455-462
Onchocerca gibsoni, slaughtered cattle,
infection rate and nodule characteristics in
relation to geographic region, season, breed,
sex, and age of host: Australia

Age of host

Latif, B. M. A.; Said, M. S.; and Ali, S. R.,
1979, Vet. Parasitol., v. 5 (4), 307-314
Babesia bigemina, cattle of 2 different age
groups (exper.), clinical manifestations,
parasitemia, indirect fluorescent antibody
titer

Age of host

Lawler, G. H., 1969, J. Fish. Research Bd.
Canada, v. 26 (4), 821-831
Triaenophorus nodulosus in *Perca flavescens*,
life history, description of cyst, plerocer-
coid, and invasive stages, annual incidence
and intensity of infection, relationship of
host size to infection, dynamics of infec-
tion: Heming Lake, Manitoba

Age of host

Lawrence, D. N.; et al., 1979, Am. J. Trop.
Med. and Hyg., v. 28 (6), 991-996
Mansonella ozzardi, Amerindian populations,
age group- and village-specific prevalence,
diagnosis by peripheral blood lymphocyte
cultures compared with Giemsa-stained periph-
eral blood smears: states of Amazonas and
Acre, Brazil

Age of host

Lee, E. H.; and Onderka, D. K., 1978, Canad.
Vet. J., v. 19 (9), 237-243
Eimeria spp., chickens, incidence of clinical
coccidiosis by month of year and age of host
in the Ontario Veterinary Services Branch
records 1973-1977, possible use of data to
synchronize drug rotation with change in
incidence

Age of host

Lehnert, T.; and Shimanuki, H., 1979, Apidolo-
gie, v. 10 (1), 17-22
Nosema apis, package bees, population change
and spore levels in older vs. newly emerged
bees, much of disease eliminated with death
of older bees, effect of feeding fumagillin
at time packages are installed

Age of host

Leonov, V. A., 1960, Uchen. Zapiski Gor'kovsk.
Gosudarstv. Pedagog. Inst. im. M. Gor'kii,
v. 27, 29-37
helminths of herons, degree of infection by
host age (adult/young): Black Sea preserve,
Kherson oblast

Age of host

Leonov, V. A., 1960, Uchen. Zapiski Gor'kovsk.
Gosudarstv. Pedagog. Inst. im. M. Gor'kii, v.
27, 38-57

helminth fauna of *Larus argentatus*, intensi-
ty and extensity, host age and seasonal dy-
namics: Black Sea preserve, Kherson oblast

Age of host

Letch, C. A.; and Ball, S. J., 1979, Parasi-
tology, v. 79 (1), 119-124
Trypanosoma cobitis, prevalence in fish,
seasonal fluctuation, host age: River Lee
at Enfield Lock

Age of host

Lewert, R. M.; Yogore, M. G., jr.; and Blas, B. L., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 92-98

Schistosoma japonicum, humans, assay of lymphocyte blast transformation by whole blood culture technique under field laboratory conditions, measurement of response to phytohemagglutinin and to worm and egg antigens in relation to host age, sex, and level of egg excretion

Age of host

Lewert, R. M.; Yogore, M. G., jr.; and Blas, B. L., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 1010-1025

Schistosoma japonicum, human, prevalence and intensity, morbidity (hepato- and/or splenomegaly, height and weight, symptomatology), host age and sex: Barrio San Antonio, Bases, Samar, The Philippines

Age of host

Lewis, J. W., 1978, *J. Zool.*, London, v. 184 (2), 225-229

Skrjabinogylus nasicola in *Mustela nivalis* (nasal sinuses), correlation of intensity of infestation with severity of skull damage and with host age and sex, host factors influencing worm size and sex ratios, crowding effect in heavy infestations: Berkshire, Northumberland, and Sussex

Age of host

Lightner, L.; Christensen, B. M.; and Beran, G. W., 1978, *J. Am. Vet. Med. Ass.*, v. 172 (5), 564-567

intestinal nematodes of dogs and cats, prevalence, sex and age of host, seasonal patterns, statistics obtained from records of the Iowa State University Veterinary Clinic: Ames, Iowa

Age of host

Lin, Y. K.; Ho, Y. C.; and Sung, Y. L., 1975, *Tung Wu Hsueh Pao (Acta Zool. Sinica)*, v. 21 (2), 141-154

Moniezia expansa, goats, seasonal incidence, age of host, biology of oribatid mite vectors, control measures: Sieng-Yu district, coastal Fukien

Age of host

Loker, E. S., 1978, *Exper. Parasitol.*, v. 45 (1), 65-73

Schistosomatum douthitti, effect of age and of size of *Lymnaea catascopium* on miracidium-snail interactions and on susceptibility to infection, ingestion of miracidia and their subsequent penetration through esophageal wall, miracidial penetration of external snail surfaces was rare

Age of host

Long, P. L.; and Millard, B. J., 1979, *Avian Path.*, v. 8 (3), 213-228

Eimeria spp., young chickens kept in litter pens, immunization, response to challenge with homologous and heterologous strains, effect of host age and of immunizing dose, timing of onset of immunity, longevity of immunity

Age of host

McDougald, L. R.; and McQuistion, T. E., 1978, *Avian Dis.*, v. 22 (4), 765-770

Eimeria spp., turkeys, coccidiosis management, innate (age) resistance and acquired immunity vs. anticoccidial medication

Age of host

McGowan, M. J.; Camin, J. H.; and McNew, R. W., 1979, *J. Parasitol.*, v. 65 (5), 692-699

Haemaphysalis leporispalustris infestations of juvenile and adult *Sylvilagus floridanus* from January 1974-December 1975 in Douglas County, Kansas, relationship to skin-sensitizing antibody production, models used to interpret data show promise for predicting tick population fluctuations and incidence of vector borne disease outbreaks, implications of existence of resistance to tick attachment

Age of host

McGregor, I. A.; and Williams, K., 1978, *Israel J. Med. Sc.*, v. 14 (6), 697-706

malaria, value of gel-precipitation test in monitoring endemicity in a rural African village, parasite and precipitin prevalence rates by age, climatic variation and extensive drug usage as factors implicated in changes in prevalence: The Gambia

Age of host

McKinney, T. D.; and Christian, J. J., 1970, *J. Wildlife Dis.*, v. 6 (3), 140-143

Cuterebridae [sp.] in *Tamias striatus*, incidence by sex-age classes, effects of parasitism: Wayne County, northeastern Pennsylvania

Age of host

Mahon, R., 1976, *Canad. J. Zool.*, v. 54 (12), 2227-2229

Ligula intestinalis-infected *Notropis Hudsonius*, parasitism results in sterilization, poor condition, and small size, infected fish mainly over 1 year of age: south shore of Long Point, Lake Erie

Age of host

Malloy, W. F.; and Embil, J. A., 1978, *Canad. J. Comp. Med.*, v. 42 (1), 29-31

Toxocara canis, *T. cati*, *Toxascaris leonina*, and other parasites, prevalence in dogs or cats, percentages by sex and age, survey initiated because of cases of human visceral larva migrans, public health implications: Halifax, Nova Scotia

Age of host

Manafova, Sh. G., 1978, *Izvest. Akad. Nauk Azerbaidzhan. SSR, s. Biol. Nauk.* (4), 75-79

coccidiosis, cattle, zebu, buffalo, age and seasonal dynamics: Azerbaidzhan

Age of host

Manas Almendros, I.; et al., 1978, *Rev. Iber. Parasitol.*, v. 38 (3-4), 751-773

Dicrocoelium dendriticum, frequency in cattle, according to host age and sex, seasonal distribution: Granada, Spain

- Age of host
Markov, G. S.; et al., 1978, *Ekologiya, Sverdlovsk* (2), 32-36
Digamma interrupta-infected Abramis brama, weights of various organs, various age classes of fish, statistical analysis
- Age of host
Marzochi, M. C. de A.; and Chieffi, P. P., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (1), 36-40
Necator americanus, Ancylostoma duodenale, humans from periurban and rural populations, epidemiology, distribution: municipality of Londrina, Parana, Brazil
- Age of host
Matsuev, V. M., 1973, *Vet. Nauka--Proizvod.*, Trudy, Minsk, v. 11, 159-162
nematodes, coccidia, age and seasonal dynamics of infection rates of chickens
- Age of host
Mayrink, W.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 123-137
dermal leishmaniasis, humans and dogs, epidemiology, negative search for infected phlebotomines and wild mammals: Rio Doce Valley, State of Minas Gerais, Brazil
- Age of host
Mester, H., 1978, *Ang. Parasitol.*, v. 19 (1), 20-28
Actornithophilus gracilis, Austromenopon aegialitidis, Quadriceps junceus, lapwing nestlings, correlation between number of lice and host age, food preferences of both sexes of lice, overcrowding
- Age of host
Michel, J. F.; Lancaster, M. B.; and Hong, C., 1979, *Parasitology*, v. 79 (1), 157-168
Ostertagia ostertagi, cattle, effect of age, previous experience of infection, pregnancy, and lactation on resistance to establishment of worms, rate at which populations are turned over, and arrested development
- Age of host
Mills, C. A.; Anderson, R. M.; and Whitfield, P. J., 1979, *J. Animal Ecol.*, v. 48 (2), 383-399
Transversotrema patialense on Brachydanio rerio (exper.), host size (age) and parasite survival, (parasite) age- and density-dependent survival and reproduction, reinfection and transplantation experiments failed to provide evidence of host immunological responses
- Age of host
Miln, A. J., 1978, *N. Zealand Entom.*, v. 6 (4), 392-399
Mattesia sp. and Nosema takapauensis in Costelytra zealandica, incidence among larvae, seasonal distribution, growth and development of diseased larvae, mortality, transmission by soil: New Zealand
- Age of host
Minar, J.; and Dorzh, C., 1970, *Folia Parasitol.*, v. 17 (1), 91-92
Hypoderma spp., cattle, infestation in relation to host age and breed, geographical area, season, and method of breeding; rearing experiments: Mongolia
- Age of host
Mirck, M. H.; and Franken, P., 1978, *Tijdschr. Diergeneesk.*, v. 103 (7), 355-360
Strongyloides westeri, ponies (exper.), foals and yearlings, comparisons of prepatent periods, haemoglobin values, and beta-globulin levels
- Age of host
Miron, C. A., 1978, *Agric. El Salvador*, v. 17 (1), 12-24
anaplasmosis, bovine, prevalence, complement fixation test, no difference in regard to age, sex or breed of host: San Miguel, El Salvador
- Age of host
Molineaux, L.; et al., 1978, *Bull. World Health Organ.*, v. 56 (4), 573-578
Plasmodium falciparum, P. malariae, serological study comparing infants exposed to or protected from malaria: Nigeria
- Age of host
Musaev, F. A., 1972, *Parazitologiya, Leningrad*, v. 6 (2), 185-188
Trichomonas elongata, occurrence in oral cavity of healthy persons vs. those with oral cavity diseases, host age and sex, suitable media for cultivating trichomonads, activity in vitro of several medicinal substances, role of trichomonads in periodontitis confirmed by treatment of patients with trichopol
- Age of host
Musaev, M. A.; and Ibragimova, G. G., 1974, *Parazitologiya, Leningrad*, v. 8 (1), 70-73
Eimeria tenella, E. mitis, chickens (exper.), changes in lecithin content of blood serum at different stages of infection, extent of biochemical changes depends on pathogenicity of different species and host age
- Age of host
Musaev, M. A.; and Surkova, A. M., 1972, *Parazitologiya, Leningrad*, v. 6 (1), 11-15
Eimeria tenella-, E. mitis-infected chickens (exper.), changes in activity of alkaline and acid phosphatases of small intestine depend on species of coccidia, age of host, and stage of infection
- Age of host
Muzzall, P. M.; and Bullock, W. L., 1978, *J. Parasitol.*, v. 64 (5), 860-865
Neoechinorhynchus saginatus in Semotilus corporalis, seasonal changes in prevalence and intensity, parasite population structure, distribution in host intestine, relationship between fish size and parasite prevalence and intensity, occurrence in other hosts: Oyster River, Durham, New Hampshire
- Age of host
Nadim, A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (1, pt. 1), 25-28
kala-azar, human, geographical distribution, age and sex distribution, clinical findings, wild carnivores as probable reservoir hosts and Phlebotomus major as probable vector: Iran

Age of host

- Nagaty, H. F.; Elahi, R.; and Mohajeri, M., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (4), 369-375
parasitic infections, survey of 11,986 patients, incidence by age and sex: State of Khorasan (mostly from Mash'ad), N.E. Iran

Age of host

- Nansen, P.; Midtgaard, N., 1977, *Nord. Vet.-Med.*, v. 29 (6), 257-262
Fasciola hepatica, sheep, high frequency in adults and strikingly low frequency in lambs results from marshland management system; summer grazing on dike and its seaward side where snail vectors are not found prevents lamb infection; massive infection of adults also prevented: South-western Jutland

Age of host

- Nardin, E. H.; et al., 1979, *Science* (4418), v. 206, 597-599
Plasmodium falciparum, human, antibodies to sporozoites, occurrence in 4 age groups: Keneba, West Kiang district, The Gambia

Age of host

- Nathan, M. B.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 299-302
Mansonella ozzardi, humans, prevalence and distribution in coastal north Trinidad, W.I.

Age of host

- Nawalinski, T.; and Roundy, L. M., 1978, *South-east Asian J. Trop. Med. and Pub. Health*, v. 9 (3), 440-441
intestinal parasites, human, prevalence by age and sex: Kampong Telok Kechil, Pulau Pangkor, West Malaysia

Age of host

- Nawalinski, T.; Schad, G. A.; and Chowdhury, A. B., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1152-1161
hookworms and other intestinal helminths, children, prevalence and intensity over 22-month period, host age, sex, and religion, seasonal distribution: rural West Bengal

Age of host

- Nawalinski, T.; Schad, G. A.; and Chowdhury, A. B., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1162-1173
hookworms, acquisition and loss by children over 22-month study period, host age, sex, and religion, seasonal patterns, extrapolation of estimates for larval efficiency and adult life spans: rural West Bengal

Age of host

- Neraasen, T. G.; and Holmes, J. C., 1975, *Acta Parasitol. Polon.*, v. 23 (12-25), 277-289
analysis of circulation of cestodes among 3 species of geese (young and adult) nesting in close association, 4 groups of cestodes delineated representing different pathways and patterns of exchange: Anderson River Delta, Northwest Territories, Canada

Age of host

- Noemi, I.; Reyes, H.; and Mauro, G., 1975, *Rev. Chilena Pediat.*, v. 46 (1), 50-53
Giardia lamblia found to be prevalent infection in infant and child patients at 2 local hospitals in Santiago, Chile

Age of host

- Oberg, C.; Franjola, R.; and Leyan, V., 1979, *Bol. Chileno Parasitol.*, v. 34 (1-2), 21-26
helminths of dogs, incidence survey, prevalence in relation to age, sex and weight: Valdivia City, Chile

Age of host

- Ocklitz, H. W.; Grulich, M.; and Klimt, F., 1971, *Scand. J. Infect. Dis.*, v. 3 (3), 239-243
Toxoplasma gondii, children and juveniles surveyed for positive reactions to the toxo-plasmin skin test, comparisons by age, and geographic locations in and around Berlin (GDR)

Age of host

- Omer, A. H. S., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 858-863
Plasmodium spp., human, prevalence by parasite species and by host age group, dramatic response to mass chemoprophylaxis with chloroquine: Gezira and Bor regions, Sudan

Age of host

- Oomen, J. M. V.; Meuwissen, J. H. E. T.; and Gemert, W., 1979, *Trop. and Geogr. Med.*, v. 31 (4), 587-606
males of 3 ethnic groups and 3 age groups inhabiting same locality, haematological status (including anemia), spleen and liver enlargement, immunoglobulin status, malaria parasite rates, other parasite infections, possible associations between these and other factors (including nutrition, sickle cell trait, altered immune response to malaria): Northern Nigeria

Age of host

- Oshima, T., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (6), 447-455
Toxocara canis, specific-pathogen-free beagles vs. prenatally infected mongrel dogs dewormed before inoculation (exper.), larval migration and development, eosinophilia after primary and superinfection, age resistance

Age of host

- Padchenko, I. K., 1970, *Parazitologiya*, Leningrad, v. 4 (4), 394-396
Lamblia, infestation rate in humans of different age groups in rural and urban areas, high infestation rate in preschool rural children may be explained by contact with farm dogs which carry natural infections of *L. canis* and were proved experimentally susceptible to *L. intestinalis*: Ukraine

Age of host

- Palicka, P., 1979, *Ceskoslov. Epidemiol., Mikrobiol., Imunol.*, v. 28 (1), 29-37
scabies, human, epidemiological analysis of 9312 cases from 1961-1977, incidence, host age and sex, seasonal character, familial incidence, gypsy population as reservoir: Karvina district

Age of host

- Palicka, P., 1979, *Ceskoslov. Epidemiol., Mikrobiol., Imunol.*, v. 28 (2), 108-115
scabies, human, epidemiological surveys in familial foci

Age of host

Palmero, H. A.; Caeiro, T. F.; and Iosa, D. J., 1977, *Rev. Argent. Cardiol.*, v. 45 (5), 415-427
human trypanosomiasis, evaluation of age, sex and weight of Chagasic patients, possible effects on arterial blood pressure

Age of host

Parre, J.; Hussar, U.; and Schattschneider, T., 1977, *Esti Pollumaj. Akad. Teadusl. Toode Kogum.* (104), 81-89
Eimeria tenella, immunization and subsequent invasion, chicks, mitotic activity of thymus lymphocytes depressed, number of degenerative cell forms in thymus raised, changes correlated with increasing host age

Age of host

Parre, J.; and Simovart, H. E., 1977, *Esti Pollumaj. Akad. Teadusl. Toode Kogum.* (104), 114-118
histomoniasis, turkeys, age and seasonal dynamics in relation to epizootiology; disease outbreaks in young birds under stress conditions; nitazol satisfactory, trichopol good prophylactic and therapeutic effect

Age of host

Partono, F.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 910-915
Brugia timori, human, epidemiological and clinical features in newly established village: Karakuak, West Flores, Indonesia

Age of host

Pautrizel, R.; et al., 1978, *Compt. Rend. Acad. Sc., Paris*, v. 287, s. D, Sc. Nat. (5), 575-578
Trypanosoma equiperdum, mice, influence of host age on effectiveness of stimulation of its defenses by electromagnetic radiation, mature immune system is required

Age of host

Pederson, J. C., 1977, *Great Basin Nat.*, v. 37 (3), 407-409
Dermacentor albipictus on *Odocoileus hemionus* (anus, ears, areas of flank and udder), rates of occurrence and infestation, seasonal distribution, age of host and parasite: Utah County, Utah

Age of host

Pejcoch, M., 1977, *Casop. Slezsk. Muz.*, s. A., v. 26 (1), 71-76
human intestinal parasites reported by age groups: okrese Bruntal, Czechoslovakia

Age of host

Pellegrino, J.; Coelho, P. M. Z.; and Sampaio, I. B. M., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (2, pt. 1), 363-364
Schistosoma mansoni, men vs. boys, intradermal test with histamine, no statistical difference in skin response, contrast with earlier results using specific schistosomal antigens (response significantly greater in men than in boys)

Age of host

Pence, D. B.; and Meinzer, W. P., 1979, *Internat. J. Parasitol.*, v. 9 (4), 339-344
helminth fauna of *Canis latrans*, low similarity with those from other geographic regions in North America, associations between pairs of species in terms of frequency of occurrence, mean levels of infection in presence or absence of other species, host age and sex effects: West Texas

Age of host

Peron, E.; and Mauri, M., 1977, *Rev. Cubana Cien. Vet.*, v. 8 (2), 13-21
Dictyocaulus viviparus, calves, extent of invasion, results correlated with climatic conditions regardless of management-rotation changes; lower incidence in older animals: Cuba

Age of host

Persson, K.; et al., 1979, *Brit. J. Vener. Dis.*, v. 55 (6), 429-433
prevalence of micro-organisms in female genital tract, comparison in women from 2 health clinics; *Trichomonas vaginalis* had epidemiology similar to *Chlamydia*, *Neisseria* and *Mycoplasma*, older women had increased susceptibility to trichomoniasis

Age of host

Phillips, W. J.; and Cannon, L. R. G., 1978, *J. Fish Dis.*, v. 1 (2), 137-149
Sacculina granifera infections of *Portunus pelagicus*, prevalence, host age and sex, seasonal distribution, influence of parasite upon host: morphological and behavioural modifications, inhibited moulting, male sterility: Moreton Bay, Queensland

Age of host

Piegari, V.; Di Martino, G.; and Amici, G., 1973, *Rassegna Internaz. Clin. e Terap.*, Napoli, v. 55 (18), 1107-1113
echinococcosis, pulmonary hydatid cysts in children, clinical aspects, medical and surgical management according to type of lesions

Age of host

Pigott, R. S., 1978, *Southwest. Vet.*, v. 31 (3), 193-196
Dirofilaria immitis, *Dipetalonema reconditum*, pet dogs, prevalence in relation to sex, weight, age, haircoat color and length, and whether dogs were kenneled indoors or outdoors: Corpus Christi, Texas

Age of host

Popov, V. N., 1975, *Parazitologiya*, Leningrad, v. 9 (1), 31-36
helminth fauna of *Histiophoca fasciata*, intensity and extensity, host age dynamics: southern Okhotsk Sea

Age of host

Prestwood, A. K.; Smith, J. F.; and Brown, J., 1971, *J. Wildlife Dis.*, v. 7 (3), 149-154
Dictyocaulus viviparus in *Odocoileus virginianus* (lungs), prevalence and numbers, seasonal abundance, host age and sex: Alabama; Arkansas; Florida; Georgia; Kentucky; Louisiana; Maryland; Mississippi; North Carolina; South Carolina; Texas; Virginia; and West Virginia

Age of host

- Prokop, J.; and Pavlasek, I., 1977, Vet. Med., Praha, v. 50, v. 22 (8), 505-512
endoparasites, calves, coprological examination in large-capacity calf-houses, parasite number and extensity of invasion increases with age: Benesov district, Central-Bohemian region

Age of host

- Przyjałkowski, Z., 1978, Acta Parasitol. Polon., v. 25 (21-35), 287-292
Trichinella spiralis in conventional mice and in germfree mice also infected with *Staphylococcus epidermidis* (alone or associated with *Escherichia coli*), numbers of established intestinal trichinellae, time of their expulsion, packed cell volumes, and white blood cell counts, results indicate that size of infective dose, age of mice, and type of intestinal flora play role in course of experimental trichinosis

Age of host

- Pugh, R. N. H., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 189-190
Schistosoma haematobium, males aged 5-20, prime environmental contaminators responsible for more than 77% of infection transmission, need for control measures: Malumfashi area, northern Nigeria

Age of host

- Pugh, R. N. H.; and Gilles, H. M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 471-482
Schistosoma haematobium, human, survey, age group and sex-specific prevalence and intensity, decline in transmission since 1971, possible impact of new dams: Malumfashi District, Kaduna State, Nigeria

Age of host

- Pugh, R. N. H.; and Gilles, H. M., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 349-354
Schistosoma haematobium, subjects living in Malumfashi endemic diseases research area, no association found between bacteriuria and parasite infections, probably reflects low intensity of parasite infection: northern Nigeria

Age of host

- Rau, M. E.; and Gordon, D. M., 1978, J. Fish Dis., v. 1 (3), 259-263
Apatemon gracilis pellucidus in *Culaea inconstans*, frequency distribution and localization in host populations of homogeneous age and size structure: swamp on Ile Perrot, Province of Quebec, Canada

Age of host

- Rehinder, C.; and von Szokolay, P., 1978, Nord. Vet.-Med., v. 30 (4-5), 214-216
Ostertagia leptospicularis, *Spiculopteragia alcis*, winter-slaughtered reindeer, lower prevalence in calves than in adults, lower number of species than in autumn, possible significance: Sweden

Age of host

- Ricciardi, I. D.; et al., 1978, Rev. Microbiol., Sao Paulo, v. 9 (4), 181-187
Toxoplasma gondii, human, seroepidemiological survey, prevalence in relation to geographic region, age, sex, rural vs. urban residence, skin color, blood group, occupation, contact with animals: Brazil

Age of host

- Richter, C. B.; Humason, G. L.; and Godbold, J. H., jr., 1978, J. Comp. Path., v. 88 (2), 171-180
Pneumocystis carinii in *Saguinus* spp., lung pathology, incidence, predisposition in young and long term residents of Medical and Health Sciences Division of Oak Ridge Associated Universities

Age of host

- Robertson, D. A., 1979, J. Fish Dis., v. 2 (6), 481-491
Ichtyobodo necator on farmed salmonids, prevalence and intensity in relation to time, temperature, and host age; suggested that some form of host defense mechanism is operating: central Scotland

Age of host

- Rogers, R. J.; Blight, G. W.; and Knott, S. G., 1978, Austral. Vet. J., v. 54 (3), 115-120
Anaplasma marginale in *Bos taurus* and *B. indicus* types, clinical outbreaks, serological survey, seasonal distribution, age, sex, and breed of host, high prevalence in *Boophilus microplus* infested areas: southern Queensland

Age of host

- Rohde, K., 1979, Am. Naturalist, v. 114 (5), 648-671
ectoparasites of fish, particularly Monogenea, critical evaluation of intrinsic and extrinsic factors responsible for niche restriction

Age of host

- Romestand, B.; and Trilles, J. P., 1979, Ztschr. Parasitenk., v. 59 (2), 195-202
cymothoid isopods, influence on host growth and weight-size ratios

Age of host

- Rondelaud, D.; and Barthe, D., 1978, Ann. Parasitol., v. 53 (2), 201-213
Fasciola hepatica, development of redial generations in *Lymnaea truncatula* in relation to temperature, desiccation of habitat, and host body size

Age of host

- Rondelaud, D.; and Barthe, D., 1978, Compt. Rend. Soc. Biol., Paris, v. 172 (6), 1194-1200
Fasciola hepatica, development of rediae in *Limnaea* spp., dependent upon host growth

Age of host

- Rose, J. H., 1978, Research Vet. Sc., v. 24 (1), 61-64
Ostertagia circumcincta, immunization of lambs using metabolites and/or macerated in vitro-grown larvae, some protection conferred on 3- and 6- but not 9-month-old lambs

Age of host

- Rothwell, T. L. W., 1978, Internat. J. Parasitol., v. 8 (1), 33-37
Trichostrongylus colubriformis, guinea pigs, vaccination, factors influencing immunity (different routes of administration of vaccine, age of host, variation in period between vaccination and challenge, administration of vaccine in divided as opposed to single doses, adjuvants)

Age of host

Rozen, P.; Corpade, M.; and Blajovan, L., 1978, *Bacteriol., Virusol., Parazitol., Epidemiol., Bucuresti*, v. 23 (4), 207-212
Giardia lamblia, children, age and seasonal incidence: urban district, Bucuresti

Age of host

Salgado Filho, W.; et al., 1976, *AMB, Rev. Ass. Med. Brasil.*, v. 22 (7), 237-240
 Chagas disease, outpatients, review of cases from 1960-1970, decreased incidence of cardiopathy: Hospital das Clinicas de Ribeirao Preto

Age of host

Samuel, W. M.; Trainer, D. O.; and Glazener, W. C., 1971, *J. Wildlife Dis.*, v. 7 (3), 142-146

Cephenemyia spp. on *Odocoileus virginianus*, prevalence and numbers, seasonal distribution, age and sex of host, habitat: Welder Refuge, San Patricio County, south Texas

Age of host

Sannia, A.; and James, B. L., 1978, *Ztschr. Parasitenk.*, v. 50 (1), 1-11
Cercaria cerastodermae I in *Cerastoderma edule*, variations in occurrence as related to season, size, age, distribution and species of host; double infections with other trematodes: Thames estuary

Age of host

Saror, D. I.; Schillhorn van Veen, T. W.; and Adeyanju, J. B., 1979, *J. Small Animal Practice*, v. 20 (4), 243-247
 intestinal parasites, dogs, prevalence, distribution by age group, blood picture: Zaria, Nigeria

Age of host

Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 24-28
 ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics

Age of host

Schenone, H.; et al., 1971, *Rev. Chilena Pediat.*, v. 42 (8), 561-566
 human scabies, incidence survey showed children under 15 to be most heavily infested, apparent spread through overcrowding of sleeping facilities of families, lindane therapy recommended as drug of choice: Santiago, Chile

Age of host

Schilt, U., 1978, *Schweiz. Med. Wchnschr.*, v. 108 (18), 668-672
Toxoplasma gondii, human, diagnosis, sensitivity and reproducibility of indirect immunofluorescence, results of tests on 2593 Bernese people in 9 age classes; need for expression of antibody titers in international units

Age of host

Schutte, C. H. J.; van Deventer, J. M.; and Eriksson, I. M., 1977, *South African Med. J.*, v. 51 (9), 268-272
Schistosoma haematobium and other intestinal parasites of black children in an endemic schistosomiasis area, incidence survey by age and sex: Natal, South Africa

Age of host

Scott, J. S., 1969, *J. Fish. Research Bd. Canada*, v. 26 (4), 879-891
 trematode parasites of *Argentina silus*, incidence and intensity in different host length groups, as indicators of change in host feeding habits, not suitable as biological tags to distinguish host populations; *Lecithophyllum botryophorum*, parasite length/frequency distribution in different host length groups, seasonal variation, parasite life span and growth: western Atlantic

Age of host

Shaker, Z. A.; et al., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 221-232
Schistosoma mansoni, *S. haematobium*, humans, demonstration of circulating bilharzial antigens using indirect haemagglutination and complement fixation techniques, correlation between % of positive cases and host age, duration of infection, clinical presentation, schistosome species, intradermal test results, and effect of chemotherapy

Age of host

Shanta, C. S.; et al., 1977, *Malaysian Vet. J.*, v. 6 (3), 95-110
 endo- and ecto-parasites of dogs, prevalence rates, degree of parasitism, sex of parasite, sex and age of host: Ipoh, West Malaysia

Age of host

Shepherd, R. C. H.; and Edmonds, J. W., 1978, *Austral. J. Ecol.*, v. 3 (3), 287-295
Echinophaga myrmecobii, *E. perilis*, and *E. gallinacea* on *Oryctolagus cuniculus*, seasonal occurrence, ratio of male/female fleas, age and sex of host: Mallee region, north-west of Victoria, Australia

Age of host

Sherkov, S. N.; and El Rabie, Y., 1977, *Egypt. J. Vet. Sc.*, v. 13 (2), 89-97
Linguatula serrata, domestic animals, survey, highest intensity of invasion in mountainous areas, seasonal distribution, absence of infection in young animals, control measures: Jordan

Age of host

Sherkov, S. N.; Leitch, B.; and El Rabie, Y., [1977], *Egypt. J. Vet. Sc.*, v. 13 (1), 1976, 45-51
Sarcosporidia, survey of incidence in domestic animals by examining for cystozoites rather than cysts, distribution by season, age of host, species of animal, and climate: Jordan

Age of host

Siddiqui, M. A., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 377-386
Litomosoides carinii, quantitative transmission to un-irradiated and irradiated golden hamsters and white mice, both species highly susceptible but mice were poor hosts, some age resistance or young susceptibility in hamsters, duration and intensity of microfilaraemia higher in hamsters

- Age of host
Singhvi, A.; and Johnson, S., 1978, Zool. Anz., Jena, v. 200 (5-6), 417-425
Rictularia jodhpurensis in male and female Rattus rattus of 3 different age categories, incidence, intensity, seasonal variation, parasite sex ratio, parasite length in relation to host weight and worm burden: Jodhpur, India
- Age of host
Singhvi, A.; and Johnson, S., 1978, Ztschr. Ang. Zool., v. 65 (4), 449-459
nematodes, Rattus rattus, incidence and intensity of infection in relation to weight, sex, age of host, and month of year: Jodhpur
- Age of host
Sinniah, B.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 272-276
parasitic infections in oil palm estate workers, prevalence by age and sex, haemoglobin concentration and eosinophil counts: Malaysia
- Age of host
Sinniah, B.; Singh, M.; and Anuar, K., 1979, J. Helminth., v. 53 (2), 147-152
Capillaria hepatica in rats, prevalence in relation to host age, sex, and habitat, localized foci of infection: Malaysia
- Age of host
Smith, D. H.; Warren, K. S.; and Mahmoud, A. A. F., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 220-229
Schistosoma mansoni, human, morbidity in relation to prevalence and intensity, host age and sex, importance of environmental factors such as ecology of transmission and presence of malaria: Nduru, Kisumu, Kenya
- Age of host
Smith, H. J., 1978, Vet. Parasitol., v. 4 (3), 265-273
Trichonema spp., re-infection of mature (9 and 10 year old) parasite-free sensitized ponies, findings indicate development of strong resistance which may be partly associated with host age and demonstrate the pathogenesis of inhibited larvae which may be retained by resistant ponies for prolonged periods of time
- Age of host
Smith, R. D.; et al., 1978, Research Vet. Sc., v. 24 (3), 287-292
Babesia bovis, calves, exposed by injection of infected blood or application of infected Boophilus microplus larvae, laboratory conditions, greater severity in tick-induced infections, severe reactions and high mortality occurring among older animals; tick transmission under laboratory conditions as useful research tool
- Age of host
Sosnina, E. F., 1970, Parazitologiya, Leningrad, v. 4 (4), 371-374
sucking lice on small rodents, infestation in relation to type of forest, host age and sex, and season: Crimean mountains
- Age of host
Sosnina, E. F.; and Davydov, G. S., 1975, Parazitologiya, Leningrad, v. 9 (2), 183-189
Neohaematopinus palaeartus infestation of Marmota caudata in relation to geographic regions and vertical zones, season, host activity period (hibernation, reproduction, etc.), host age and sex, age and sex structure of louse populations: Tadzhikistan
- Age of host
Srivastava, C. B.; and Mukherjee, G. D., 1976, J. Zool. Soc. India, v. 26 (1-2), 131-137
Isoparorchis hypselobagri in Mystus aor and M. seenghala, intensity of infestation, seasonal variation, host size (age) and sex: river Jamuna, Allahabad, India
- Age of host
Stadnichenko, A. P., 1974, Parazitologiya, Leningrad, v. 8 (5), 420-425
Bucephalus polymorphus parthenites in Unio pictorum and Anodonta piscinalis, incidence and intensity, host age and sex, histopathological and histochemical effects: Ukraine
- Age of host
Stewart, G. L.; Reddington, J. J.; and Smyth, W. G., 1979, Southwest. Vet., v. 32 (1), 29-32
intestinal helminths of dogs, prevalence, age of host: Tarrant County, Texas
- Age of host
Stewart, G. L.; Smyth, W. G.; and Reddington, J. J., 1979, Southwest. Vet., v. 32 (3), 199-202
Dirofilaria immitis, dogs, prevalence, various risk factors, (host sex, age, and hair length): Tarrant County, Texas
- Age of host
Stone, J. E.; and Pence, D. B., 1978, J. Parasitol., v. 64 (2), 295-302
helminth parasitism of Felis rufus, nature, prevalence, intensity, ecological relationships of parasitism including concentration of dominance, similarity of helminth faunas between different geographic areas, and nature of distributions of aggregations of helminth species in this host: Rolling Plains of West Texas
- Age of host
Stradowski, M., 1977, Acta Parasitol. Polon., v. 24 (20-27), 249-258
Amidostomum anseris, duration of prepatent, patent, and postpatent periods of infection in domestic geese (exper.), some variation in relation to host age but not to season nor to primary vs. secondary infection
- Age of host
Stromberg, P. C.; Toussant, M. J.; and Dubey, J. P., 1978, Parasitology, v. 77 (1), 13-18
Paragonimus kellicotti, population biology of metacercariae in crayfish (Orconectes rusticus, Orconectes sp.): prevalence and intensity in relation to host size (age) and sex, frequency distribution (negative binomial) and abundance in two different localities (in municipal park vs. in undisturbed woodlot), seasonal variation, no apparent detrimental effect of infection on host, seasonal timing of life cycle events is postulated: tributary of Alum Creek near Westerville, Franklin County, Ohio

Age of host

- Suh, M. D.; et al., 1978, Research Rep., Office Rural Develop., Min. Agric. and Fish., Korea, v. 20, 47-52
Dictyocaulus viviparus, cattle, infestation rates in relation to season, fattening vs. individual farm-houses, native vs. dairy cattle, and host age: Seoul abattoir, Korea

Age of host

- Sullivan, J. T.; and Palmieri, J. R., 1978, J. Parasitol., v. 64 (5), 939-940
Echinostoma malayanum, infection rate of *Indoplanorbis exustus* (exper.) decreased as shell diameter increased, cause of relative nonsusceptibility of large snails not known

Age of host

- Surkova, A. M., 1972, Parazitologiya, Leningrad, v. 6 (2), 171-175
Eimeria tenella, *E. mitis*, chickens (exper.), changes in total, residual, and protein nitrogen content in liver, depends on stage of development of parasite, host age, and species of *Coccidia*

Age of host

- Svarc, R., 1978, Biol. Prace, v. 24 (1), 133 pp.
Cystocaulus ocreatus, sheep (lungs), age of host, morphology, histopathology in intermediate and definitive hosts, development, monograph: Central Slovakia

Age of host

- Swietlikowski, M., 1974, Acta Parasitol. Polon., v. 22 (35-44), 459-471
Dictyocaulus viviparus, calves, four age groups, double immunization, challenged one month later, course of defence reaction

Age of host

- Tada, I.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 67-71
onchocerciasis, human, epidemiological survey, prevalence in relation to altitude, host age and sex distribution, relation between *microfilaria* rate and nodule rate, examination of anterior chamber of eye, location of *onchocercal* nodules, comparison of diagnostic measures: San Vicente Pacaya, Guatemala

Age of host

- Tarsitani, G.; et al., 1979, Nuovi Ann. Ig. e Microbiol., v. 30 (2), 197-206
 parasites of children, prevalence factors (age, sex, socio-economic class, crowding): Rome, Italy

Age of host

- Tashkinov, N. I., 1971, Parazitologiya, Leningrad, v. 5 (3), 261-265
Oedemagena tarandi, intensity of infestation of reindeer, effect of host age, sex, weight, and health, differences in degree of infection of various age and sex groups apparently are result of unequal mortality rates of grubs rather than number of eggs laid by female flies: Amur oblast

Age of host

- Tashkinov, N. I., 1972, Parazitologiya, Leningrad, v. 6 (4), 326-333
Oedemagena tarandi in reindeer of different age and sex groups, larval development, larval emergence, flight and attacking activity of imago: seasonal and daily dynamics, weather effects, other factors

Age of host

- Taylor, S. M.; Kilpatrick, D.; and Kenny, J., 1978, Zentralbl. Vet.-Med., Reihe B, v. 25 (4), 282-289
Trichinella spiralis, pigs, evaluation of enzyme linked immuno-sorbent assay, influence of husbandry and age of host on extinction values

Age of host

- Taylor, S. M.; and Pearson, G. R., 1979, J. Comp. Path., v. 89 (3), 405-412
Trichostrongylus vitrinus, 4- and 8-month-old lambs (exper.), location of worms and pathological changes during clinical infection, small intestine

Age of host

- Threlfall, W.; and Goudie, R. I., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 229-232
Microphallus pygmaeus and *Cercaria parvicauda* in *Littorina saxatilis*, intensity and extensity of infection by sex and size of host, and month; host reproductive capacity; experimental infection in mice: Gull Island, Witless Bay and Newman's Sound, Newfoundland

Age of host

- Timm, R. M.; and Cook, E. F., 1979, Am. Midland Naturalist, v. 101 (1), 211-217
Cuterebra fontinella on *Peromyscus leucopus noveboracensis*, mean infestation rate, host age, reduced size of reproductive organs in infected subadult males, no effect on adult male and female reproductive organs, parasite-host relationships are stable and parasite and host have evolved coadaptations and a tolerance for each other

Age of host

- Tongson, M. S.; et al., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 39-48
 parasitic gastro-enteritis, epidemiological pattern in calves born during dry season vs. wet season, genera of strongyles that affect calves at certain ages and seasons of year, suggested deworming practices: ANSA Cattle and Crop Farms, Philippines

Age of host

- Tongson, M. S.; and Trovela, V., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 49-54
 parasitic gastroenteritis, epidemiology: monthly strongyle ova counts of calves, effects of season, climate, and host age, suggested deworming practices: Verandia Ranch, Philippines

Age of host

- Torres, P.; et al., 1977, Bol. Chileno Parasitol., v. 32 (3-4), 73-80
Diphyllobothrium sp. plerocercoids, survey of infection incidence and intensity in *Salmo gairdneri* (celoma, higado, pared intestinal, gonadas, bazo, musculos); relationship of infection to age, sex, weight, length; brief discussion of problems of systematics of *Pseudophyllidae*: Calafquen Lake, Chile

Age of host

- Tribouley, J.; et al., 1978, Ann. Parasitol., v. 53 (1), 21-31
 toxoplasmosis, human, seroepidemiologic survey, complement fixation and passive haemagglutination tests, age of host, possible sources of infection: Guadeloupe; Martinique

Age of host

- Trueman, K. F.; and Blight, G. W., 1978, Austral. Vet. J., v. 54 (6), 301-305
Babesia bovis, susceptible cattle of different ages, innate immunity, aged cattle highly susceptible compared to other groups aged up to 2 years, animals of all ages had solid resistance to subsequent heterologous challenge

Age of host

- Uhazy, L. S., 1977, Canad. J. Zool., v. 55 (9), 1430-1441
Philometroides huronensis in *Catostomus commersoni*, prevalence and intensity of all stages, host age, season, annual life cycle

Age of host

- Urbano Jimenez, F. J.; et al., 1977, Rev. Clin. Espan., v. 147 (3), 307-312
Leishmania donovani in adults, clinical and diagnostic study of 2 cases and description of differences in presentation from that of infantile leishmaniasis: Spain

Age of host

- Utech, K. B. W.; Seifert, G. W.; and Wharton, R. H., 1978, Austral. J. Agric. Research, v. 29 (2), 411-422
Boophilus microplus, resistance in selected *Bos taurus* and crossbred *B. taurus* x *B. indicus*, factors affecting resistance: age and sex of host, lactational status, pregnancy status, season, breed differences

Age of host

- Vachanavinich, K.; and Brockelman, C. R., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (4), 514-519
Angiostrongylus cantonensis, *Pila ampullacea* (exper.), method of introducing larvae to individual snails to make possible quantitative evaluation of worm recovery, distribution of infective stages within snail, dose of infection, and age of snails (which may affect host susceptibility) are analyzed

Age of host

- Valtonen, E. T.; and Valtonen, T., 1978, J. Fish Biol., v. 13 (5), 557-561
Cystidicola farionis in *Coregonus nasus*, prevalence and intensity of infection, age of host, no clear seasonal fluctuations: Bothnian Bay

Age of host

- Verma, P. C.; and Kalra, D. S., 1978, Indian J. Animal Research, v. 12 (2), 107-108
 parasites of young buffalo calves, prevalence decreases with age: Hissar

Age of host

- Visco, R. J.; Corwin, R. M.; and Selby, L. A., 1978, J. Am. Vet. Med. Ass., v. 172 (7), 797-800
 intestinal parasites, cats, effects of age, sex, and neutering on prevalence: Columbia, Missouri

Age of host

- Wang, K. Y., 1971, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 70 (1), 36-48
Ascaris lumbricoides, hookworm, *Trichuris trichiura*, humans, prevalence survey, epidemiology, urban vs. rural populations: Hsing-Chuang Cheng

Age of host

- Ward, J. K.; Ferguson, D. L.; and Parkhurst, A. M., 1979, J. Animal Sc., v. 49 (2), 306-309
 gastrointestinal parasites, beef cows (feces), level of infection, effect of animal age and season of year: Mead, Nebraska

Age of host

- Watson, T. G.; Freeman, R. S.; and Staszak, M., 1979, Canad. J. Pub. Health, v. 70 (3), 179-182
 intestinal parasites, native people, incidence by age-groups: Sioux Lookout Zone, northwestern Ontario

Age of host

- Welch, J. S.; Dobson, C.; and Freeman, C., 1979, Austral. Vet. J., v. 55 (6), 265-274
Dirofilaria immitis, *Toxocara canis*, dogs, epidemiological survey, host age, sex, and breed, immunodiagnosis (3 immunofluorescence tests, in vitro lymphocyte blastogenesis); prevalence of serum antibody in man proportional to incidence of canine infections: Queensland; Central Australia

Age of host

- Wenlock, R. W., 1978, East African Med. J., v. 55 (6), 268-276
Plasmodium spp., humans, incidence survey, distribution by age and sex of host, multiple infections more common in children: rural areas of Zambia

Age of host

- Wenlock, R. W., 1979, J. Trop. Med. and Hyg., v. 82 (5), 90-98
 malaria, hookworm, *Schistosoma haematobium*, humans in rural environment, epidemiology in relation to malnutrition and host age, importance as public health problems: Zambia

Age of host

- Wilkins, H. A.; and Scott, A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 397-404
Schistosoma haematobium, children, 4-year study of egg counts, variations with age and with season, significant degree of stability of individual counts relative to those of group as whole, immunity as possible regulating factor: The Gambia

Age of host

- Williamson, W. A.; and Gilles, H. M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 323-328
 malarionetric study of young children (seasonal distribution, age-specific parasite prevalence, splenic indices): Malumfashi, Northern Nigeria

Age of host

- Wright, C. A.; Southgate, V. R.; and Howard, G. W., 1979, J. Nat. Hist., v. 13 (4), 499-506
Schistosoma margrebowiei, life cycle, possible interactions with *S. leiperi*, host age: Lochinvar National Park, Zambia

Age of host

- Wyatt, E. J., 1978, J. Fish Dis., v. 1 (3), 233-240
Myxobolus insidiosus in *Oncorhynchus tshawytscha*, epizootiology, factors affecting prevalence of infection in naturally contaminated waters, no infection could be induced in susceptible fish in disease free water supply: Oregon

Age of host

Zielke, E.; and Chlebowski, H. O., 1979, Tropenmed. u. Parasitol., v. 30 (1), 91-96
Wuchereria bancrofti, humans, distribution and prevalence survey: north-western savanna area of Liberia, West Africa

Age of host

Zielke, E.; and Chlebowski, H. O.; 1979, Tropenmed. u. Parasitol., v. 30 (2), 153-165
Wuchereria bancrofti, changes in microfilaraemia in a rural population, survey done in 1973 and repeated in 1976/1977: savanna area in Upper Lofa in the hinterland of Liberia

Age of host

Zigas, V., 1977, Sex. Transm. Dis., v. 4 (2), 63-65
Trichomonas vaginalis, comparative evaluation of infection prevalence in Melanesian vs. Caucasian ethnic groups, correlations by age, sex, parity, and place of residence: New Britain Island, Papua New Guinea

Age of parasite

Anderson, R. M., 1978, Parasitology, v. 77 (2), 201-224
 snail infection by miracidia, population framework and Basic Model, rate of infection, infective stage density, host density, role of chance, miracidial mortality and age-dependent infectivity, heterogeneity between snails with respect to susceptibility and 'attractiveness'

Age of parasite

Baron, P. J.; and Appleton, T., 1977, Ztschr. Parasitenk., v. 53 (2), 239-246
Ligula intestinalis, aging plerocercoid probably about 10 years old in *Abramis brama*, light and electron microscopy of strobila, calcification of tissue with microcrystals similar to microapatite crystals in vertebrate bone; chemical analysis; mineral deposits possibly arise from host metabolic process: Layer Pit, Essex

Age of parasite

Bieler, J.; and Jones, A. W., 1971, Radiation Research, v. 45 (1), 182-190
Hymenolepis microstoma, ionizing radiation of cysticercoids causes delay in development of tapeworm with length of delay depending on developmental stage during which cysticercoid is irradiated, delay greatest on days 3 and 4 of development

Age of parasite

Borozdina, N. I., 1974, Parazitologiya, Leningrad, v. 8 (5), 438-446
Oedemagena tarandi, 2nd and 3rd stage larvae, age-related changes in content of moisture, dry matter, fat, glycogen, total nitrogen, and protein

Age of parasite

Butter, M. E., 1979, Bijdr. Dierk., Amsterdam, v. 48 (2), 141-155
Corallionoxia longicauda in *Meandrina meandrites*, occurrence and infestation rates in relation to depth, colony size, and environmental factors, parasite morphology, age of parasite and host, spatial distribution of parasite within colony, limited effect of parasite on host: S. W. and N. E. coasts of Curacao, Netherlands Antilles

Age of parasite

Cabaret, J., 1979, Ann. Parasitol., v. 54 (4), 475-482
 larval protostrongylids, infectivity for several species of helioids in relation to fecal vs. pulmonary origin of larvae and to age of larvae

Age of parasite

Chowaniec, W.; and Markiewicz, K., 1970, Acta Parasitol. Polon., v. 18 (1-12), 25-32
Fasciola hepatica, course of experimental infections in rabbits in relation to age of metacercariae and temperature at which snail intermediate hosts have been maintained, latter considered to be a factor in virulence of metacercariae but not former

Age of parasite

Cioli, D.; Blum, K.; and Ruppel, A., 1978, Exper. Parasitol., v. 45 (1), 74-80
Schistosoma mansoni, onset of rejection in laboratory rats is dependent on parasite age and independent of length of contact with host, possible immune and nonimmune mechanisms

Age of parasite

Cordeiro, M. N.; and Gazzinelli, G., 1979, Exper. Parasitol., v. 48 (3), 337-344
Schistosoma mansoni, protein and glycoprotein composition of tegument with respect to age, sex, and host origin, resolution and molecular weight estimates by polyacrylamide gel electrophoresis

Age of parasite

Crystal, M. M.; and Guillot, F. S., 1978, Ann. Entom. Soc. Am., v. 71 (2), 243-246
Cochliomyia hominivorax, field-collected and laboratory reared females, correlation of changes in flight behavior of aging female with changes in ovarian development

Age of parasite

Davis, B. O., jr., 1975, Acta Parasitol. Polon., v. 23 (12-25), 229-236
Hymenolepis microstoma, effects of cysticercoid age on morphology, excystation in vitro, and infectivity for mice

Age of parasite

Do Duong Thai; and Nguyen Tuyet Mai, 1973, Rev. Med., Hanoi, 165-168
Ascaris lumbricoides, laboratory studies on drug resistance to anthelmintics (ascaridin used in experiments), finding that sex of worm, maturity of worm, and drug concentrations all influenced reactions to drugs

Age of parasite

Goennert, R.; and Andrews, P., 1977, Ztschr. Parasitenk., v. 52 (2), 129-150
Schistosoma mansoni in mice, *Mastomys*, and hamster, praziquantel, various routes of administration compared, all effective; fractional doses double efficacy of single dose; more effective against invading and mature stages than against juveniles

Age of parasite

Hefnawy, T.; Khalil, G. M.; and Sidrak, W., 1979, J. Med. Entom., v. 15 (5-6), 445-451
Ornithodoros savignyi, blood meal weight and heme content during developmental cycles, technique for determining exact instar

Age of parasite

- Hopkins, D. E.; and Chamberlain, W. F., 1978, *J. Econom. Entom.*, v. 71 (1), 25-26
Bovicola limbatus, 3rd instars, relationship between inhibition of ecdysis and time and quantity of ingestion of diflubenzuron (inhibitor of cuticle deposition), inhibition of ecdysis increased progressively as age of nymphs increased, timing of treatment important for control

Age of parasite

- Kerboeuf, D., 1978, *Ann. Recherches Vet.*, v. 9 (1), 153-159
Heligmosomoides polygyrus, mice, infectivity of third-stage larvae, storage time and temperature, larvae lose infectivity when they age, maturation period required for maximum infectivity

Age of parasite

- Kosminskii, R. B.; et al., 1979, *Vestnik Zool. Akad. Nauk Ukrainsk. SSR, Inst. Zool.* (2), 48-53
Amphipsylla rossica, ecology, field and laboratory studies: feeding, reproduction, development, survival, and longevity under various conditions of temperature and humidity; age composition and physiological state of populations in different months; abundance on *Microtus arvalis* and in its nests and burrow entrances in different months: Transcaucasian highlands

Age of parasite

- Krasnolobova, T. A., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 22, 92-118
Plagiorchis elegans, development in final hosts, morphological variation, effect of host species, parasite age, and season

Age of parasite

- Kumar, V.; Geerts, S.; and Mortelmans, J., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (3), 181-184
Cysticercus bovis, failure of 74-day-old cysts to develop in exper. infected apes, monkeys, and hamsters, cysts apparently too immature; hamster (intestine) successfully infected with 89-day-old cyst

Age of parasite

- Landau, I.; et al., 1979, *Compt. Rend. Acad. Sc., Paris*, v. 288, s. D, Sc. Nat. (5), 521-522
Plasmodium yoelii, gametocytes, morphological characters as indication of age, infectivity, and periodicity

Age of parasite

- Michel, J. F.; Lancaster, M. B.; and Hong, C., 1978, *Internat. J. Parasitol.*, v. 8 (6), 437-441
Ostertagia ostertagi, worm length and development of vulval flap in populations of uniform age in relation to worm burden and time

Age of parasite

- Mills, C. A.; Anderson, R. M.; and Whitfield, P. J., 1979, *J. Animal Ecol.*, v. 48 (2), 383-399
Transversotrema patialense on *Brachydanio rerio* (exper.), host size (age) and parasite survival, (parasite) age- and density-dependent survival and reproduction, reinfection and transplantation experiments failed to provide evidence of host immunological responses

Age of parasite

- Moncol, D. J.; and Triantaphyllou, A. C., 1978, *J. Parasitol.*, v. 64 (2), 220-225
Strongyloides ransomi, factors influencing sex expression and developmental pattern of progeny of parasitic females: appearance of males attributed to effect of host immunity, physiological ageing of parasitic females, or both, sex determined prior to hatching; cultural conditions (pH, culture substrate) influenced direction of development of female rhabditoid larvae

Age of parasite

- Nwosu, A. B. C., 1978, *Internat. J. Parasitol.*, v. 8 (5), 355-358
Ancylostoma tubaeforme, infective larvae, age-related changes in esterase and acetylcholinesterase activities

Age of parasite

- Orr, T. S. C.; and Hopkins, C. A., 1969, *J. Fish. Research Bd. Canada*, v. 26 (4), 741-752
Schistocephalus solidus, procedures for maintenance in laboratory, growth of plerocercoids, relationship between number of proglottids and weight (age) of plerocercoid

Age of parasite

- Pederson, J. C., 1977, *Great Basin Nat.*, v. 37 (3), 407-409
Dermacentor albipictus on *Odocoileus hemionus* (anus, ears, areas of flank and udder), rates of occurrence and infestation, seasonal distribution, age of host and parasite: Utah County, Utah

Age of parasite

- Pennoit-De Cooman, E.; and De Rycke, P. H., 1978, *Vlaams Diergeneesk. Tijdschr.*, v. 47 (3), 236-241
Echinococcus granulosus, criteria for differentiating sterile and fertile experimental secondary cysts (minimum cyst age, presence or absence of calcareous corpuscles)

Age of parasite

- Prechel, D. P.; and Nollen, P. M., 1979, *J. Parasitol.*, v. 65 (3), 446-450
Megalodiscus temperatus, effects of miracidial aging and dilution of snail-conditioned water on responses of miracidia

Age of parasite

- Prokopic, J., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 339-345
Hymenolepis erinacei growth and population dynamics in *Erinaceus europaeus* (exper.)

Age of parasite

- Rusak, L. V., 1974, Parazitologiya, Leningrad, v. 8 (2), 109-111
Hymenolepis nana, young and adult worms, changes in localization in intestine of white mice in course of a day

Age of parasite

- Schlueter, U., 1978, Zool. Anz., Jena, v. 200 (1-2), 85-91
Argulus foliaceus, localization on integument of *Xiphophorus helleri* and occurrence of free-swimming parasites in relation to water temperature and to parasite age and sex

Age of parasite

- Scott, J. S., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 879-891
 trematode parasites of *Argentina silus*, incidence and intensity in different host length groups, as indicators of change in host feeding habits, not suitable as biological tags to distinguish host populations; *Lecithophyllum botryophorum*, parasite length/frequency distribution in different host length groups, seasonal variation, parasite life span and growth: western Atlantic

Age of parasite

- Shishova-Kasatochkina, O. A.; and Dubovskaja, A. J., 1975, Acta Parasitol. Polon., v. 23 (26-40), 389-393
 6 cestode species, proteinase activity, differences in adult and larval parasites, differences in relation to class of vertebrate host, high proteolytic activity in *Schistocephalus solidus* tegument

Age of parasite

- Sosnina, E. F.; and Davydov, G. S., 1975, Parazitologiya, Leningrad, v. 9 (2), 183-189
Neohaematopinus palaeartus infestation of *Marmota caudata* in relation to geographic regions and vertical zones, season, host activity period (hibernation, reproduction, etc.), host age and sex, age and sex structure of louse populations: Tadzhikistan

Age of parasite

- Stradowski, M., 1971, Acta Parasitol. Polon., v. 19 (1-8), 63-68
Amidostomum anseris larvae, *Anser anser* dom. (exper.), degree of invading activity before and after hatching

Age of parasite

- Uspenskii, I. V.; and Repkina, L. V., 1974, Parazitologiya, Leningrad, v. 8 (1), 3-11
Ixodes persulcatus, physiological age and age structure of natural populations over a season, changes in mean physiological age under influence of DDT solution or of the solvent (methyl-ethyl ketone), comparisons of changes in physiological age and susceptibility to DDT

Age of parasite

- Uspenskii, I. V.; and Repkina, L. V., 1978, Zool. Zhurnal, v. 57 (7), 1092-1095
Ixodes persulcatus, mating and fertilization in relation to age and moulting

Age of parasite

- Vasil'ev, G. I.; Elistratova, N. P.; and Lazareva, L. A., 1979, Ekologiya, Sverdlovsk (1), 97-99
Paradoxopsyllus scorodumovi parasitizing *Ochotona pricei* in plague focus, ecology: seasonal distribution, abundance on animals, in nests, and in burrow entrances, age and sex composition of populations, high alimentary activity: Gorno-Altai

Age of parasite

- Wagland, B. M., 1978, Austral. J. Agric. Research, v. 29 (2), 401-409
Boophilus microplus, development on previously unexposed *Bos indicus* and *B. taurus*, body length measurements for estimation of ages of parasitic stages, growth rates on various body regions of host

Age of parasite

- Wagland, B. M., 1979, Austral. J. Agric. Research, v. 30 (1), 211-218
Boophilus microplus, resistance in *Bos indicus*, ages of ticks rejected, compared with losses from *Bos taurus*

Age of parasite

- Wagland, B. M.; Roberts, J. A.; and Sutherst, R. W., 1979, Internat. J. Parasitol., v. 9 (3), 177-182
Haemaphysalis longicornis, growth of each instar during feeding on *Bos taurus*, criteria based on length which can be used to estimate age of ticks in natural populations

Age of parasite

- Zagniborodova, I. N., 1978, Izvest. Akad. Nauk Turkmen. SSR, s. Biol. Nauk (2), 67-71
Xenopsylla hirtipes, *X. g. gerbilli*, age (stage) and physiological (fat body score) characteristics of population in various months of the year, significance in plague prophylaxis: Karakum, Turkmenia

Agglutination. See Immunity, Agglutination.Air-borne diseases. See Disease transmission, Air.Alaska. See United States, Alaska.Alberta. See Canada, Alberta.Allergy. See Immunity, Allergy.

Altitude

- Barrera, A., [1971], An. Inst. Biol., Univ. Nac. Mexico, v. 39 (1), s. Zool., 1968, 35-99
 Siphonaptera, altitudinal distributions of fleas and hosts do not coincide, this lack explained by climatic factors influencing habitats of flea larvae and different levels of host specificity of adult fleas, four different strata or floors of faunistic composition identified: Popocatepetl Volcano and Trans-Volcanic Belt

- Altitude**
 Carney, W. P.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 471-479
Entamoeba histolytica, *Toxoplasma gondii*, humans, serological survey using indirect hemagglutination test, prevalence of antibody titers by host age, sex, and village (altitude): Malili area, South Sulawesi, Indonesia
- Altitude**
 Kloos, H.; Lemma, A.; and Desole, G., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 461-470
Schistosoma mansoni, human, prevalence, distribution, relationship to altitude: Ethiopia
- Altitude**
 Muliarskaia, L. V., 1972, Parazitologiya, Leningrad, v. 6 (6), 540-545
Trombiculidae, numbers and specific variety in foothill, mountain, and alpine zones compared: Caucasus Minor, Azerbaidzhan
- Altitude**
 Raizada, R. N.; and Nagar, S. K., 1979, Indian J. Animal Sc., v. 49 (8), 622-628
Boophilus microplus, abundance and distribution in relation to environmental conditions; site preferences for feeding on cows and buffalo: Uttar Pradesh
- Altitude**
 Tada, I.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 67-71
onchocerciasis, human, epidemiological survey, prevalence in relation to altitude, host age and sex distribution, relation between microfilaria rate and nodule rate, examination of anterior chamber of eye, location of onchocercal nodules, comparison of diagnostic measures: San Vicente Pacaya, Guatemala
- Amebic abscess.** See Abscess, Amebic.
- Ameboma.** See Granuloma.
- Amino acids.** [See also Biochemistry; Metabolism; Proteins]
- Amino acids**
 Belinskaia, V. Z., 1973, Parazitologiya, Leningrad, v. 7 (2), 116-122
Hypoderma bovis, 1st stage larvae, uptake of amino acids tagged with radioisotopes
- Amino acids**
 Brockelman, C. R.; and Jackson, G. J., 1978, J. Parasitol., v. 64 (5), 803-809
Rhabditis maupasi, axenic cultivation in chemically defined medium, nutritional (amino acid, heme, and sterol) requirements
- Amino acids**
 Chen, S. N.; and Howells, R. E., 1979, Parasitology, v. 78 (3), 343-354
Brugia pahangi, infective larvae, juveniles, adults, uptake in vitro of dyes, monosaccharides, and amino acids, no evidence for oral uptake, transcuticular route of uptake may be employed
- Amino acids**
 Cornford, E. M.; and Oldendorf, W. H., 1979, J. Parasitol., v. 65 (3), 357-363
Schistosoma mansoni, new method for measuring transintestinal uptake in individual male and female worms, application to uptake of glucose and selected amino acids
- Amino acids**
 Driuchenko, E. A.; and Berdyeva, G. T., 1972, Parazitologiya, Leningrad, v. 6 (4), 356-359
Ascaridia galli, *Ascaris suum*, arginine and lysine consumption from casein hydrolysate in vitro, simultaneous rise in concentration of leucine with isoleucine and valine with methionine in medium, ammonia primarily excreted suggested that medium is suitable for maintenance
- Amino acids**
 Driuchenko, E. A.; and Berdyeva, G. T., 1974, Parazitologiya, Leningrad, v. 8 (3), 208-211
Ascaris suum, *Ascaridia galli*, amino acid uptake
- Amino acids**
 Halton, D. W., 1978, Parasitology, v. 76 (1), 29-37
Diclidophora merlangi, trans-tegumental absorption of L-alanine and L-leucine, worm is clearly sanguinivorous and digests blood in well-developed gut but may also be capable of supplementing this diet with low molecular weight organic nutrient absorbed directly from sea water via tegument
- Amino acids**
 Hansen, B. D., 1979, Exper. Parasitol., v. 48 (2), 296-304
Trypanosoma gambiense, membrane transport of amino acids
- Amino acids**
 Isseroff, H.; Spengler, R. N.; and Charnock, D. R., 1979, J. Parasitol., v. 65 (5), 709-714
Fasciola hepatica, rats, anemia, similarity to anemia produced by infused proline
- Amino acids**
 Law, S. S.; and Mukkada, A. J., 1979, J. Protozool., v. 26 (2), 295-301
Leishmania tropica, transport of L-proline and its regulation in promastigotes
- Amino acids**
 Lussier, P. E.; Podesta, R. B.; and Mettrick, D. F., [1979], J. Parasitol., v. 64 (6), 1978, 1139-1140
Hymenolepis diminuta, effect of ATP on amino acid transport
- Amino acids**
 Lussier, P. E.; Podesta, R. B.; and Mettrick, D. F., [1979], J. Parasitol., v. 64 (6), 1978, 1140-1141
Hymenolepis diminuta, amino acid transport and osmoregulation
- Amino acids**
 MacInnis, A. J.; et al., 1976, Rice Univ. Studies, v. 62 (4), 183-204
Hymenolepis diminuta, specificity of amino acid transport in the tapeworm and in its rat host

Amino acids

- Mason, P. R.; and Fripp, P. J., 1977, Ztschr. Parasitenk., v. 53 (3), 287-295
Schistosoma mansoni miracidia, effect of sugars, fatty acids, amino acids, and snail excretion products on activity, some effects concentration dependent and pH dependent; possible role for chemo-klinokinetic behavior patterns in miracidial host location

Amino acids

- Mishra, G. C.; and Dev, B., 1977, Ztschr. Parasitenk., v. 52 (1), 103-111
Poecilobdella granulosa, phosphatase systems inhibited by various amino acids but alkaline phosphatase of stomach and intestine activated by certain amino acids at low concentrations, correlated with sanguivorous habits

Amino acids

- Pavlov, A. V., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 115-118
Ascaris suum, effect of ATP, B₆ and DNP on transport of amino acid in vitro

Amino acids

- Phillips, R. S.; Wilson, R. J. M.; and Pasvol, G., 1978, J. Protozool., v. 25 (3, pt. 2), 394-398
Plasmodium falciparum, differentiation of gametocytes in microcultures of infected human blood, can develop both from ring-stage parasites introduced into culture and from merozoites released during subsequent schizontogony in vitro, incorporation of [³H]-isoleucine by developing gametocytes

Amino acids

- Rutherford, T. A.; Webster, J. M.; and Barlow, J. S., 1977, Canad. J. Zool., v. 55 (11), 1773-1781
Mermis nigrescens, parasitic larval stages, physiology of glucose and amino acid uptake in vitro

Amino acids

- Sawma, J. T.; Isseroff, H.; and Reino, D., 1978, Comp. Biochem. and Physiol., v. 61A (2), 239-243
 rats, induction of bile duct hyperplasia by infusion of proline (but by none of the other amino acids tested), proline-induced hyperplasia resembles that observed in bile ducts of *Fasciola hepatica*-infected rats

Amino acids

- Simpson, M. G.; and Laurence, B. R., 1979, J. Parasitol., v. 65 (5), 732-736
Brugia patei, incorporation of radioactive precursors into filarial larvae developing in susceptible vs. refractory mosquito species and into mosquito flight muscle

Amino acids

- Thomas, J. D.; and Assefa, B., 1979, Comp. Biochem. and Physiol., v. 63C (1), 99-108
Biomphalaria glabrata juveniles, behavioral responses to amino acids, possible practical application in control of snail hosts of schistosomiasis

Amino acids, Host

- Asch, H. L., 1976, Rice Univ. Studies, v. 62 (4), 35-42
Schistosoma mansoni, free amino acid pools of adult male and female worms and worm pairs and of host (mouse) hepatic portal plasma

Amino acids, Host

- Bogush, A. A., 1974, Vet. Nauka--Proizvod., Trudy, Minsk, v. 12, 133-136
 [Sarcocystis], swine, levels of free amino acids in infested meat

Amino acids, Host

- Chi, C. W.; and Isseroff, H., 1979, J. Nutrition, Bethesda, v. 109 (7), 1299-1306
Fasciola hepatica, rats, growth studies, nitrogen balance studies, disposition of excessive proline

Amino acids, Host

- Dubinsky, P.; and Rybos, M., 1977, Vet. Med., Praha, v. 50, v. 22 (7), 433-439
Ascaridia galli, chicks (exper.), negative influence on level of free plasma amino acids, aspartate and alanine aminotransferase activities in host chick serum, single invasion failed to influence serum protein level or weight increase in chicks kept under hygienic conditions

Amino acids, Host

- Dunn, M. A.; et al., 1978, Gastroenterology, v. 75 (6), 1010-1015
Schistosoma mansoni, conversion of arginine (but not glutamic acid) to proline in normal and fibrotic mouse liver slices and in living mice with schistosomiasis, arginine-derived proline was utilized for liver collagen synthesis, possible pathophysiological significance

Amino acids, Host

- Dunn, M. A.; et al., 1979, Gastroenterology, v. 76 (5, pt. 1), May, 978-982
Schistosoma mansoni, human, collagen synthesis rates in fibrotic liver specimens, liver free-proline content and utilization of proline precursors

Amino acids, Host

- El-Hawary, M. F. S.; et al., 1976, Egypt. J. Physiol. Sc., v. 2 (1-2), 1975, 69-78
 bilharziasis, serum and urinary amino acid patterns in Egyptian children at different stages of the disease and before and after bilharcid therapy

Amino acids, Host

- Emara, S. H.; and El-Ghaeb, F. M., 1978, Indian J. Exper. Biol., v. 16 (3), 378-381
Schistosoma mansoni, total proteins and free amino acids in hemolymph of *Biomphalaria alexandrina* and *Helisoma duryi* pre- and post-exposure to miracidia

Amino acids, Host

- Garlough, S.; Mason, M.; and Sanchez, G., 1978, Comp. Biochem. and Physiol., v. 61B (1), 33-36
Trypanosoma brucei-infected rats, host-parasite interaction in metabolism of tyrosine

Amino acids, Host

Gordon, R.; et al., 1978, *Parasitology*, v. 77 (3), 367-374

Neomesomermis flumenalis in *Prosimulium mixtum/fuscum* and *Simulium venustum*, effects of parasitism on hemolymph composition (protein, amino acid, carbohydrate), relation to nematode's nutritional requirements

Amino acids, Host

Isoun, T. T.; Isoun, M. J.; and Anosa, V. O., 1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 330-334

Trypanosoma vivax-infected sheep, free plasma amino acid profiles of infected sheep and the trypanosome organism, significance of amino acid changes in terms of host and parasite metabolism

Amino acids, Host

Jaffe, J. J.; and Chrin, L. R., 1979, *J. Parasitol.*, v. 65 (4), 550-554

Brugia pahangi-infected vs. normal *Aedes aegypti*, methionine synthetase activity

Amino acids, Host

Kasprzak, K.; et al., 1971, *Acta Parasitol. Polon.*, v. 19 (1-8), 1-7

Trichinella spiralis-infected rat muscles, distinct aberration in incorporation of glycine-1-¹⁴C and l-lysine-¹⁴C

Amino acids, Host

Khovanskikh, A. E., 1974, *Parazitologiya, Leningrad*, v. 8 (5), 456-459

Eimeria tenella, use of amino acids from host's cell for protein synthesis

Amino acids, Host

Mack, S. R.; Samuels, S.; and Vanderberg, J. P., 1979, *J. Parasitol.*, v. 65 (1), 130-136

Plasmodium berghei-infected and uninfected *Anopheles stephensi*, free amino acids in hemolymph

Amino acids, Host

Rutherford, T. A.; and Webster, J. M., 1978, *Canad. J. Zool.*, v. 56 (2), 339-347

Mermis nigrescens-infected *Schistosoma gregaria*, trehalose, glucose, free amino acid, and lipid fatty acid composition of hemolymph

Amino acids, Host

Stanislawski, E.; Becker, W.; and Mueller, G., 1979, *Comp. Biochem. and Physiol.*, v. 63B (4), 477-482

Biomphalaria glabrata, alterations of free amino acid content in hemolymph in starvation and after infection with *Schistosoma mansoni*

Amino acids, Host

Thompson, A. C.; and Sikorowski, P. P., 1979, *Comp. Biochem. and Physiol.*, v. 63A (3), 325-328

Nosema heliothidis, effects on fatty and amino acids in infected *Heliothis zea* larvae and pupae

Amino acids, Host

Zajicek, D.; et al., 1977, *Vet. Med., Praha*, v. 50, v. 22 (2), 99-108

Paramphistomum sp., lambs (exper.), pathogenic effect on blood values, amino-transferases, alkaline phosphatase, minerals in blood serum

Amino acids, Parasite

Abbas, M.; and Foor, W. E., 1978, *Exper. Parasitol.*, v. 45 (2), 263-273

Ascaris suum, free amino acids and proteins in pseudocoelom, seminal vesicle, and glandular vas deferens

Amino acids, Parasite

Ahn, J.-H.; and Seo, B. S., 1972, *Soul Uidae Chapchi (Seoul J. Med.)*, v. 13 (4), 235-242

Paragonimus westermani, *Eurytrema pancreaticum*, paper chromatographic analysis of carbohydrate metabolism, determination of amino acid fractions and other metabolites

Amino acids, Parasite

Asch, H. L., 1976, *Rice Univ. Studies*, v. 62 (4), 35-42

Schistosoma mansoni, free amino acid pools of adult male and female worms and worm pairs and of host (mouse) hepatic portal plasma

Amino acids, Parasite

Bankov, I.; and Osikovski, E., 1976, *Khel'mintologiya, Sofia*, v. 2, 13-19

Fasciola hepatica, identification of free amino acids and other ninhydrin-positive compounds

Amino acids, Parasite

Berdyeva, G. T.; and Driuchenko, E. A., 1975, *Parazitologiya, Leningrad*, v. 9 (1), 28-30

Ascaris suum, *Ascaridia galli*, *Fasciola hepatica*, histidine metabolism, determination of histamine and histidine-ammonia-lyase

Amino acids, Parasite

Berdyeva, G. T.; and Shishova-Kasatochkina, O. A., 1974, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 24, 19-24

Ascaris suum, osmoregulatory function of amino acids, effect of vitamin B₁₂

Amino acids, Parasite

Byram, J. E.; and Senft, A. W., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 539-547

Schistosoma mansoni, *S. japonicum*, eggshell, amino acid analysis and incorporation of labelled amino acids

Amino acids, Parasite

Cross, G. A. M., 1978, *Proc. Roy. Soc. London, s. B, Biol. Sc.* (1146), v. 202, 55-72

Trypanosoma brucei, antigenic variation, characterization of major cell surface antigens, variations in amino acid sequence

Amino acids, Parasite

Dubinsky, P.; and Rybos, M., 1978, *Biologia, Bratislava, s. B, Zool.* (3), v. 33 (8), 657-662

Ascaridia galli, amino acid analysis, differences with respect to stage of development and sex and in different organs and tissues

Amino acids, Parasite

Dubinsky, P.; and Rybos, M., 1978, *Zool. Anz., Jena*, v. 201 (5-6), 391-396

Ascaris suum, *Ascaridia galli*, amino acid content in reproductive organs of males and fertilized and non-fertilized females, potential application to differentiation of species

- Amino acids, Parasite
Elpidina, E. N.; Zaitseva, G. N.; and Krashe-
ninnikov, I. A., 1979, *Biokhimiia*, v. 44
(10), 1830-1841
Trypanosoma lewisi, histones from nuclei
characterized in terms of chemical compo-
sition and RNA-polymerase activity
- Amino acids, Parasite
Ertel, J. C.; and Isseroff, H., 1976, *Rice Univ.
Studies*, v. 62 (4), 97-109
Fasciola hepatica, ornithine- δ -transaminase
(OTA), partial purification and character-
ization, concluded that high specific activ-
ity of OTA and its high tolerance for
 α -ketoglutarate result in high levels of
proline formation
- Amino acids, Parasite
Garlough, S.; Mason, M.; and Sanchez, G., 1978,
Comp. Biochem. and Physiol., v. 61B (1), 33-36
Trypanosoma brucei-infected rats, host-parasite
interaction in metabolism of tyrosine
- Amino acids, Parasite
Gibson, W. C.; et al., 1978, *Comp. Biochem. and
Physiol.*, v. 60B (2), 137-142
Trypanosoma evansi, 10 isolates compared,
isoenzymes, soluble proteins, polypeptides,
free amino acids (starch gel electrophoresis,
isoelectric focusing, SDS polyacrylamide
electrophoresis, amino acid analysis)
- Amino acids, Parasite
Gupta, S. P.; and Gupta, R. C., 1977, *Ztschr.
Parasitenk.*, v. 54 (1), 83-87
Opisthorchis pedicellata from Rita rita,
identification of free amino acids in tissues
- Amino acids, Parasite
Isoun, T. T.; Isoun, M. J.; and Anosa, V. O.,
1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 330-
334
Trypanosoma vivax-infected sheep, free plasma
amino acid profiles of infected sheep and the
trypanosome organism, significance of amino
acid changes in terms of host and parasite
metabolism
- Amino acids, Parasite
Jaskoski, B. J.; and Ozuk, B. A., 1977, *Tr.
Illinois State Acad. Sc.*, v. 70 (3-4), 363-369
Dirofilaria immitis female adults, cuticular
amino acids determined by one- and two-
dimensional thin layer chromatography
- Amino acids, Parasite
Kaur Bedi, A. J.; and Isseroff, H., 1979,
Internat. J. Parasitol., v. 9 (5), 401-404
Schistosoma mansoni-infected mice, bile
duct hyperplasia, results support data
linking proline to bile duct and liver fibro-
blast proliferation
- Amino acids, Parasite
Machnicka-Roguska, B., 1970, *Acta Parasitol.*
Polon., v. 18 (13-26), 267-276
Moniezia expansa antigens, isolation and
chemical analysis
- Amino acids, Parasite
Mazhuga, N. A., 1974, *Trudy Gel'mint. Lab.,
Akad. Nauk SSSR*, v. 24, 96-102
Ascaris suum, Contracaecum aduncum, mainte-
nance in various protein solutions, effect on
amino acids in body fluid and on end prod-
ucts of protein metabolism
- Amino acids, Parasite
Nakamura, T.; Yamaguchi, M.; and Yanagisawa, T.,
1979, *J. Biochem.*, Tokyo, v. 85 (3), 627-631
Ascaris, actin from muscle, characterization,
comparison with actins from other sources
- Amino acids, Parasite
Perov, M. F.; and Tal'drik, A. A., 1974, *Para-
zitologiya, Leningrad*, v. 8 (4), 365-367
Eimeria tenella, amino acid content of
oocysts and oocyst membranes
- Amino acids, Parasite
Robbins, S. H.; Hammett, M.; and Fried, B.,
1979, *Internat. J. Parasitol.*, v. 9 (3), 257-
260
Zygocotyle lunata, metacercarial cyst, light
and transmission electron microscopy, amino
acid analysis
- Amino acids, Parasite
Stotish, R. L.; Wang, C. C.; and Meyenhofer,
M., [1979], *J. Parasitol.*, v. 64 (6), 1978,
1074-1081
Eimeria tenella, oocyst wall, lipid composi-
tion, carbohydrate composition, protein con-
tent, amino acid analysis, proposed organiza-
tion of cell wall, results suggest explana-
tion for physical and mechanical resistance
of oocyst wall as well as possible mechanisms
for excystation of sporulated oocysts
- Amino acids, Parasite
Sukhareva-Nemakova, N. N.; et al., 1977, *Moscow
Univ. Biol. Sc. Bull.*, v. 32 (2), 43-48
Trypanosoma cruzi, fatty acid and amino acid
composition of cruzin and trypanosa (anti-
tumor preparations which are metabolic prod-
ucts of this protozoan)
- Amino acids, Parasite
Takeuchi, T.; et al., 1979, *Comp. Biochem. and
Physiol.*, v. 62B (3), 281-285
Entamoeba histolytica, axenically cultivated
trophozoites, enzymatic mechanism of L-serine
oxidation
- Anabolism. See Metabolism.
- Anaemia. See Anemia.
- Anaphylaxis. See Immunity, Allergy.
- Anatomy. See Morphology.
- Anemia. [See also Blood; Hemoglobin]
- Anemia
Anosa, V. O., 1978, *Vet. Parasitol.*, v. 4 (2),
103-109
seasonal variations in blood picture of white
Fulani calves naturally exposed to helmin-
thiasis, effect of pyrantel tartarate treat-
ment, results indicate that low hematological
values in African cattle are not inherited
characteristic but are rather due to seasonal
effects of parasitism and nutrition inherent
in indigenous husbandry practices

- Anemia**
 Imohiosen, E. A. E.; and Adadevoh, B. K., 1979, *Niger. Med. J.*, v. 9 (4), 487-491
 parasitic infestations in women using different types of contraceptive devices compared with women using no devices and with males, results correlated with haemoglobin levels of all groups, only malaria of anaemia-inducing infections occurred with significant variation, course of infections may be enhanced by presence of contraceptives
- Anemia**
 Murray, M. J.; et al., 1978, *Brit. Med. J.* (6145), v. 2, 1113-1115
 parasitic (malaria, *Schistosoma*) and non-parasitic infections, Somali nomads, adverse effect of iron repletion on course of certain infections
- Anemia**
 Oomen, J. M. V.; Meuwissen, J. H. E. T.; and Gemert, W., 1979, *Trop. and Geogr. Med.*, v. 31 (4), 587-606
 males of 3 ethnic groups and 3 age groups inhabiting same locality, haematological status (including anemia), spleen and liver enlargement, immunoglobulin status, malaria parasite rates, other parasite infections, possible associations between these and other factors (including nutrition, sickle cell trait, altered immune response to malaria): Northern Nigeria
- Anemia**
 Werblinska, B.; and Fleming, A. F., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 149-159
 treatment of human iron deficiency with daily intramuscular ferastal, includes anemia from hookworm and *Schistosoma haematobium*: Nigeria
- Anemia, Arthropoda**
 Medinskii, B. L., 1977, *Veterinariia*, Moskva (9), 70-71
 [Melophagus], sheep, blood changes (anemia, neutrophilia, lymphocytopenia)
- Anemia, Arthropoda**
 Nelson, W. A.; et al., 1977, *J. Med. Entom.*, v. 13 (4-5), 389-428
 host-ectoparasite interactions, review: hematologic and clinical manifestations of infestation, arthropod antigens and host antibodies raised against them, manifestations of antigen-antibody interaction, histopathologic reactions of skin to arthropod feeding and acquired resistance to arthropods, genetics of host resistance, economic effects of parasitism, speculation on nature of innate and acquired resistance
- Anemia, Arthropoda**
 Romestand, B., 1979, *Ann. Parasitol.*, v. 54 (4), 423-448
 Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts
- Anemia, Arthropoda**
 Romestand, B.; and Trilles, J. P., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 91-95
Anilocra physodes, *Meinertia oestroides*, *Emetha audouini*, teleost fishes, blood values, anemia, hypertrophy and hypervascularization of spleen: Herault, France
- Anemia, Cestoda**
 Cristoffanini, A.; et al., 1976, *Rev. Med. Chile*, v. 104 (12), 921-924
Diphyllobothrium latum, human, associated megaloblastic anemia, case report: Chile
- Anemia, Cestoda**
 Lombardo, G.; and Consiglio, C., 1973, *Riv. Pediat. Siciliana*, v. 28 (3-4), 155-165
 helminths, extensive hematologic study of infected children, iron deficiency anemia most frequently discovered pathologic condition
- Anemia, Cestoda**
 Osorio, G.; et al., 1974, *Rev. Med. Chile*, v. 102 (9), 700-703
Diphyllobothrium latum, human, associated megaloblastic anemia, clinical case report: Chile
- Anemia, Nematoda**
 Anosa, V. O., 1977, *Trop. Animal Health and Prod.*, v. 9 (1), 11-17
Haemonchus contortus outbreak, Nigerian dwarf ewes and lambs, haematological observations before and after treatment with thiazibendazole: Nigeria
- Anemia, Nematoda**
 Areekul, S., 1977, *Siriraj Hosp. Gaz.*, v. 29 (9), 1251-1257
 hookworm, school children, relationship between parasitic infection and anemia established: rural area of Khon-Kaen Province, Northeast Thailand
- Anemia, Nematoda**
 Areekul, S.; et al., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (1), 65-70
 parasite-infected and non-infected adult male soldiers, prevalence of anemia, hookworm infection not major cause: Thailand
- Anemia, Nematoda**
 Bloch, M., 1971, *Sangre*, Barcelona, v. 16 (1), 39-44
 human uncinariasis, associated anemia, autopsy study, one of 5 leading causes of death in El Salvador
- Anemia, Nematoda**
 Camacho Gamba, J.; and Arenas, J., 1972, *Rev. Columb. Pediat. y Puericult.*, v. 27 (1), 13-21
 uncinariasis tropical anemia in children, extensive clinical review, diagnosis, etiology, therapy
- Anemia, Nematoda**
 Greenberg, E. R.; and Cline, B. L., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (4), 770-772
Trichuris trichiura, children with high prevalence of infection, study showed no association between infection and iron deficiency anemia although hemoglobin values tended to be slightly lower: Vieques Island, Puerto Rico
- Anemia, Nematoda**
 Kelly, J. D.; Kenny, D. F.; and Whitlock, H. V., 1977, *N. Zealand Vet. J.*, v. 25 (1-2), 12-15
Ancylostoma caninum, dogs, peripheral blood lymphocyte response to phytohaemagglutinin before and after development of iron deficiency anemia

- Anemia, Nematoda
Leyland, M. J.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (1), 63-71
assessment of nutritional anaemia including adult patients with hookworm anaemia: Northern Nigeria
- Anemia, Nematoda
Lombardo, G.; and Consiglio, C., 1973, Riv. Pediat. Siciliana, v. 28 (3-4), 155-165
helminths, extensive hematologic study of infected children, iron deficiency anemia most frequently discovered pathologic condition
- Anemia, Nematoda
Mahanta, P. N.; and Roychoudhury, G. K., 1978, Indian Vet. J., v. 55 (3), 187-189
Haemonchus contortus, goats (exper.), changes in total serum iron levels
- Anemia, Nematoda
Malviya, H. C.; et al., 1979, Indian Vet. J., v. 56 (8), 709-710
Haemonchus contortus, sheep (exper.), measurement of blood loss using ^{51}Cr labelled red cells
- Anemia, Nematoda
Maspes, V.; Ferreira, C. S.; and Tamigaki, M., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (6), 329-333
Necator americanus, Ancylostoma duodenale, blood transfusions given as therapy for human hookworm anemia, correlations with pre- and post-therapy fecal egg counts
- Anemia, Nematoda
Ogunsusi, R. A., 1978, Research Vet. Sc., v. 25 (3), 298-301
acute and chronic nematodiasis, sheep, changes in blood values: northern Guinea savanna of Nigeria
- Anemia, Nematoda
Pujman, V. F.; and Hanusova, D., 1970, J. Wildlife Dis., v. 6 (3), 163-166
erythrocyte variations of normal vs. parasitized, mature vs. immature *Perdix perdix* and *Phasianus colchicus colchicus*, normalization of *Syngamus trachealis*-infected pheasant erythrocyte after addition of thiabendazole to feed
- Anemia, Nematoda
Soelberg Sørensen, P.; and Melgaard, B., 1971, Scand. J. Infect. Dis., v. 3 (1), 65-69
Necator americanus, Ancylostoma duodenale, human hookworm anemia, comparative therapeutic study using tetrachlorethylene and iron singly and in combination, use of tetrachlorethylene alone was recommended for mass therapy with the additional use of iron when objective clinical signs of anemia were present: Koraput, Orissa State, India
- Anemia, Nematoda
Tepmongkol, M.; et al., 1973, Siriraj Hosp. Gaz., v. 25 (10), 1683-1690
hookworm, patients passing ova in feces, relationship to anemia: Thailand
- Anemia, Nematoda
Vaughan, J. P.; et al., 1977, Trop. and Geogr. Med., v. 29 (4), 369-373
hookworm and iron deficiency anemia in adults and children, therapy with tetrachlorethylene and oral iron, poor response to therapy by children suggests that malaria was causative factor: Tanzania
- Anemia, Nematoda
Wilson, G. R.; and Wilson, L. P., 1978, Research Vet. Sc., v. 25 (3), 331-336
Trichostrongylus tenuis, captive *Lagopus l. scoticus*, hematology, weight, and condition
- Anemia, Nematoda
Ziecik, A.; Jablonowski, Z.; and Smok, E., 1974, Acta Parasitol. Polon., v. 22 (1-11), 15-23
Ascaris suum, guinea pigs, studies on mechanism of anemia (half life of erythrocytes determined using cross-transfer of labelled erythrocytes with healthy and infected animals as donors and recipients, osmotic resistance of erythrocytes, diameter of reticulo-cytes)
- Anemia, Protozoa
Boyer, J. M.; D'Antonio, L. E.; and Schiavone, W. A., 1979, Infect. and Immun., v. 25 (3), 805-809
Plasmodium berghei, isolation of lytic factor which induces hemolysis of erythrocytes of mice and hamsters, lipid composition, possible role in pathogenesis of malaria
- Anemia, Protozoa
Charoenlarp, P.; Vanijanonta, S.; and Chatpanyaporn, P., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 127-131
falciparum malaria, humans, prednisolone administered with quinine sulfate did not increase red cell survival
- Anemia, Protozoa
Corrier, D. E.; et al., 1979, Trop. Animal Health and Prod., v. 11 (4), 215-221
Babesia bigemina- and *B. bovis*-immunized *Bos taurus* calves transported to lowland tropics, exposed to heavy vs. light *Roophilus microplus* infestation, resulting *B. bigemina* and *B. bovis* parasitemias, mortality, weight loss, and anemia: Caribbean Coast, Colombia
- Anemia, Protozoa
Dargie, J. D.; et al., 1979, Parasitology, v. 78 (3), 271-286
Trypanosoma congolense-infected Ndama and Zebu cattle, red cell kinetics, concluded that anemia and its underlying processes are broadly in line with number of parasites in blood and that superior resistance of Ndama cattle lies in ability to control parasitemia rather than capacity to mount more efficient erythropoietic response
- Anemia, Protozoa
Dargie, J. D.; et al., 1979, Research Vet. Sc., v. 26 (2), 245-247
Trypanosoma brucei, Ndama and Zebu cattle (exper.), blood volumes and erythrokinetics, susceptibility differences between breeds

Anemia, Protozoa

- Dhar, S.; and Gautam, O. P., 1979, Indian J. Animal Sc., v. 49 (2), 122-126
Theileria annulata, calves (exper.), anemia produced by excessive removal of erythrocytes from circulation by phagocytes, involvement of auto-immune mechanism

Anemia, Protozoa

- Eckman, J. R.; et al., 1976, Tr. Ass. Am. Physicians, v. 89, 105-115
Plasmodium berghei-infected mice (exper.), vitamin E deficiency moderates severity of infection since premature, oxidant-induced hemolysis of infected erythrocytes prevents orderly parasite maturation, restoration of susceptibility to malaria by vitamin E supplementation, observations provide basis for selective advantage of G-6-PD deficiency in areas of endemic malaria

Anemia, Protozoa

- Esuruoso, G. O., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 233-244
Trypanosoma vivax, Zebu vs. Muturu cattle (exper.), differences in innate resistance, comparison of haematological, clinical, and serological responses

Anemia, Protozoa

- Facer, C. A.; Bray, R. S.; and Brown, J., 1979, Clin. and Exper. Immunol., v. 35 (1), 119-127
Plasmodium falciparum, Gambian children, direct Coombs antiglobulin reactions, incidence and class specificity, results indicate that sensitization of non-parasitized erythrocytes contributes to pathogenesis of anemia

Anemia, Protozoa

- Greenwood, B. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 378-385
Plasmodium falciparum, children, no evidence that any of several immunological factors investigated plays important role in pathogenesis of anemia

Anemia, Protozoa

- Greig, W. A.; et al., 1979, Brit. Vet. J., v. 135 (2), 130-141
Trypanosoma congolense, *T. vivax*, cattle, factors affecting blood sampling for parasitemia and anemia (diurnal variation; ear-vein vs. jugular-vein blood): The Gambia

Anemia, Protozoa

- Howard, R. J.; and Mitchell, G. F., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (5), 455-457
Plasmodium berghei, uninfected cells separated from infected mouse blood were cleared more rapidly than normal mouse erythrocytes after injection into normal mice

Anemia, Protozoa

- Kaaya, G. P.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (2), 230-235
Trypanosoma vivax, *T. congolense*, serum from infected cattle inhibited bovine granulocyte/macrophage colony formation in methyl cellulose culture, degree of inhibition appeared related to degree of parasitemia; no inhibitors of erythropoiesis were observed

Anemia, Protozoa

- Kaaya, G. P.; Winqvist, G.; and Johnson, L. W., 1977, Bull. Animal Health and Prod. Africa, v. 25 (4), 397-408
Trypanosoma congolense, goats, clinico-pathological aspects with particular reference to pathogenesis of anemia, changes in peripheral blood and in bone marrow described in detail

Anemia, Protozoa

- Khovanskikh, A. E.; Krylov, M. V.; and Ludinova, I. C., 1974, Parazitologiya, Leningrad, v. 8 (2), 164-169
Eimeria tenella, chickens (exper.), absorption of iron in small intestine, concentration of iron in tissues and organs

Anemia, Protozoa

- Krieger-Huber, S., 1974, Tierärztl. Prax., v. 2 (2), 221-224
Haemobartonella felis, infectious anemia in cats, clinical aspects, diagnosis, treatment

Anemia, Protozoa

- Laiblin, C., 1978, Berl. u. Münch. Tierärztl. Wchnschr., v. 91 (3), 48-50
Theileria annulata, cattle (exper.), haematological study, toxic lesion of bone marrow caused aplastic anaemia

Anemia, Protozoa

- Lundborg, L. E.; Karlbom, I.; and Christensson, D., 1978, Svensk Vet.-Tidn., v. 30 (10), 417-419
Haemobartonella felis, cat, infectious anemia, case report; review of diagnosis and treatment: Sweden

Anemia, Protozoa

- Mackenzie, P. K. I.; et al., 1978, Research Vet. Sc., v. 24 (1), 4-7
Trypanosoma congolense, phagocytosis of erythrocytes and leucocytes in infected sheep is due to coating of blood cells with trypanosomal antigen, phagocytic activity is dependent on parasitemia and is significant in maintaining host anemia

Anemia, Protozoa

- Maley, G. J. M.; and Desser, S. S., 1977, Canad. J. Zool., v. 55 (2), 355-358
Leucocytozoon simondi, Pekin ducklings, quantification of anemia, gametocytemia, and osmotic fragility of erythrocytes

Anemia, Protozoa

- North, D. C., 1978, J. Small Animal Practice, v. 19 (12), 769-773
Haemobartonella sp., non-splenectomized dog (blood), case report, haemolytic anaemia, post-mortem examination: Kent, Great Britain

Anemia, Protozoa

- Prabhakar, K. S.; and Hiregoudar, L. S., 1979, Gujarat Agric. Univ. Research J., v. 4 (2), 57-58
Theileria hirci, carrier sheep, parasite counts and haematological observations before and after splenectomy

Anemia, Protozoa

Preston, J. M.; Wellde, B. T.; and Kovatch, R. M., 1979, *Exper. Parasitol.*, v. 48 (1), 118-125

Trypanosoma congolense-infected calves, kinetics of anemia, important hemolytic component

Anemia, Protozoa

Pujman, V. F.; and Hanusova, D., 1970, *J. Wildlife Dis.*, v. 6 (3), 163-166

erythrocyte variations of normal vs. parasitized, mature vs. immature *Perdix perdix* and *Phasianus colchicus colchicus*, normalization of Syngamus trachealis-infected pheasant erythrocyte after addition of thiabendazole to feed

Anemia, Protozoa

Rickman, W. J.; and Cox, H. W., 1979, *J. Parasitol.*, v. 65 (1), 65-73

Trypanosoma brucei rhodesiense-infected rats, syndrome characterized by anemia, splenomegaly, and glomerulonephritis, accompanied by presence of 3 autoantibodies and by presence of fixed complement and fibrinogen on trypanosomes and erythrocytes

Anemia, Protozoa

Roberts, D. W.; and Weidanz, W. P., 1978, *Infect. and Immun.*, v. 20 (3), 728-731

Plasmodium yoelii in immunologically competent mice and mice with defined immunological deficiencies, results indicate that splenomegaly, enhanced phagocytosis, and anemia are thymus-dependent responses to malaria infection

Anemia, Protozoa

Roth, R. L.; and Herman, R., 1979, *Exper. Parasitol.*, v. 47 (2), 169-179

Plasmodium berghei, correlation of in vitro erythrophagocytosis with dynamics of early-onset anemia and reticulocytosis in mice

Anemia, Protozoa

Saror, D. I., 1979, *Vet. Rec.*, v. 105 (5), 96-98

Trypanosoma vivax, zebu cattle (exper.), haematological changes, classification of anemia

Anemia, Protozoa

Sharma, S. K.; Banerjee, D. P.; and Gautam, O. P., 1978, *Indian J. Animal Health*, v. 17 (2), 105-110

Anaplasma marginale in Bubalus bubalis (exper.), clinical course, haematological changes, effect of immunosuppressants

Anemia, Protozoa

Simpson, C. F.; Gaskin, J. M.; and Harvey, J. W., 1978, *J. Parasitol.*, v. 64 (3), 504-511

Haemobartonella felis-parasitized cat erythrocytes, ultrastructural characteristics of damage caused by parasitism, presence of crystalloid inclusions, implications for pathogenesis of anemia associated with this infection

Anemia, Protozoa

Swarup-Mitra, S.; Chowdhury, A. K. R.; and Sarkar, M., 1979, *Indian J. Med. Research*, v. 69, 571-576

Leishman[ia] donovan[i], human, erythrocytic enzymes inhibited, haematological changes, normalization following sodium antimony gluconate therapy

Anemia, Protozoa

Swift, B. L.; and Paumer, R. J., 1978, *Theriogenology*, v. 10 (5), 395-403

Anaplasma marginale, heifers in third trimester of gestation (exper.), fetus and dam arterial blood gases and pH measured, death of fetus following progressive parasitic anemia in dam is attributed to fetal anoxia

Anemia, Protozoa

Thoongsuwan, S.; and Cox, H. W., 1978, *J. Parasitol.*, v. 64 (4), 669-673

Trypanosoma lewisi, ATC strain in Sprague-Dawley rats, anemia, splenomegaly, and glomerulonephritis accompanied by presence of cold-active hemagglutinin for trypsinized rat erythrocytes

Anemia, Protozoa

Thoongsuwan, S.; Cox, H. W.; and Patrick, R. A., [1979], *J. Parasitol.*, v. 64 (6), 1050-1056

Trypanosoma lewisi, Babesia rodhaini, Plasmodium chabaudi, rats, acquired nonspecific resistance associated with recovery from various infectious anemias, association with immunoconglutinin activity, infections also stimulated production of cold-active hemagglutinin

Anemia, Protozoa

Thoongsuwan, S.; Cox, H. W.; and Rickman, W. J., 1979, *J. Parasitol.*, v. 65 (3), 426-429

Plasmodium chabaudi, Babesia rodhaini, Trypanosoma lewisi, rats, presence of antibody to fibrinogen/fibrin products, association with cold-activated hemagglutinin and immunoconglutinin, temporal relationships with anemia and parasitemia

Anemia, Protozoa

Tizard, I. R.; Holmes, W. L.; and Nielsen, K., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 108-114

Trypanosoma congolense-derived hemolytic fatty acids, characterization, probably not important mechanism of anemia in bovine trypanosomiasis

Anemia, Protozoa

Tury, E.; Papp, L.; and Horvath, Z., 1977, *Magy. Allat. Lapja*, v. 99, v. 32 (4), 249-250
Haemobartonella felis, cats (nat. and exper.), severe anemia: Hungary

Anemia, Protozoa

Valli, V. E. O.; Forsberg, C. M.; and Lumsden, J. H., 1979, *Vet. Path.*, v. 16 (1), 96-107

Trypanosoma congolense, calves (exper.), pathogenesis, neutropenia, myeloid response

- Anemia, Protozoa**
 Vaughan, J. P.; et al., 1977, Trop. and Geogr. Med., v. 29 (4), 369-373
 hookworm and iron deficiency anemia in adults and children, therapy with tetrachlorethylene and oral iron, poor response to therapy by children suggests that malaria was causative factor: Tanzania
- Anemia, Protozoa**
 Woo, P. T. K., 1979, Exper. Parasitol., v. 47 (1), 36-48
 Trypanoplasma salmositica, successful in vitro culture and subpassage, course of infection in Salmo gairdneri (exper.), clinical signs (anemia, exophthalmia, abdominal distension with ascites, splenomegaly), diagnosis by wet mount examination more sensitive than hematocrit centrifuge technique, evidence of possible antigenic variation
- Anemia, Protozoa**
 Woo, P. T. K.; and Kobayashi, A., 1975, Ann. Soc. Belge Med. Trop., v. 55 (1), 37-45
 Trypanosoma brucei-infected rabbits, postulation on mechanism of anemia (that red blood cells are coated on surface by trypanosome antigen-antibody complexes and that these cells under certain conditions are lysed by complement or agglutinated and removed by spleen)
- Anemia, Protozoa**
 Zylberait, D.; et al., 1979, Ann. Med. Int., Paris, v. 130 (10), 437-442
 kala azar, woman, hemolytic anemia, possible abnormal sensitivity of erythrocyte membrane to complement
- Anemia, Trematoda**
 Berry, C. I.; and Dargie, J. D., 1978, Vet. Parasitol., v. 4 (4), 327-339
 Fasciola hepatica, sheep (exper.), pathophysiology: influence of dietary protein and iron on erythrokinetics
- Anemia, Trematoda**
 Furmaga, S.; and Gundlach, J. L., 1978, Acta Parasitol. Polon., v. 25 (11-20), 179-189
 Fasciola hepatica-infected calves, parasitological findings, erythrocyte counts, packed cell volume, hemoglobin, transferin, iron, eosinophils, neutrophils, lymphocytes, total leukocytes, implications for etiology of anemia
- Anemia, Trematoda**
 Greenham, R., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 72-75
 Schistosoma haematobium, possible relationships between infection and severe anemia, hemoglobin levels of adolescent boys particularly low in the presence of schistosomiasis: Kenya
- Anemia, Trematoda**
 Isseroff, H.; Spengler, R. N.; and Charnock, D. R., 1979, J. Parasitol., v. 65 (5), 709-714
 Fasciola hepatica, rats, anemia, similarity to anemia produced by infused proline
- Anemia, Trematoda**
 Kawatsu, H., 1978, Bull. Japan. Soc. Scient. Fish. (Nippon Suisan Gakkaishi), v. 44 (12), 1315-1319
 Diplozoon nipponicum in crucian carp (gills), hypochromic microcytic anemia, hematological characteristics, incidence in relation to season and host size, effective treatment with trichlorfon (DEP): basin of the river Asakawa
- Anemia, Trematoda**
 Mahajan, C. L.; et al., 1979, J. Fish Dis., v. 2 (6), 519-528
 Isoparorchis hypselobagri-infected Channa punctatus, morphological, behavioural, biochemical, and haematological changes, possible human health hazard: reservoir (Khookas bundh) about 20 km north of Jaipur
- Anemia, Trematoda**
 Mahmoud, A. A. F.; and Woodruff, A. W., 1978, Clin. Sc. and Molecular Med., v. 54 (4), 397-401
 Schistosoma mansoni, mice, splenomegaly, anemia, dependent not only on parasite factors but also on host immunologic response to infection
- Anemia, Trematoda**
 Shehata, H.; et al., 1977, Egypt. J. Bilharz., v. 4 (2), 117-128
 S[chistosoma] mansoni, mice with anemia and leucocytosis, bilharzid safer therapy than tartar emetic
- Anemia, Trematoda**
 Tewari, H. C.; and Singh, (Kr.) S., 1979, Indian J. Animal Sc., v. 49 (5), 380-383
 Schistosoma incognitum, mice, egg production mainly responsible for severity of disease and for anemia
- Anemia, Trematoda**
 Zajicek, D.; et al., 1977, Vet. Med., Praha, v. 50, v. 22 (2), 99-108
 Paramphistomum sp., lambs (exper.), pathogenic effect on blood values, amino-transferases, alkaline phosphatase, minerals in blood serum
- Aneurysm, Vermineous**
 Bueno, L.; et al., 1978, Prat. Vet. Equine, v. 10 (4), 153-155
 Strongylus vulgaris, horse, mesenteric aneurysm detected by ultrasound
- Animal husbandry**
 Assoku, R. K. G., 1979, Bull. Animal Health and Prod. Africa, v. 27 (1), 29-39
 blood parasites, livestock, incidence in relation to host sex and age and to husbandry and management practices: Accra Plains, Ghana
- Animal husbandry**
 Barger, I. A.; and Southcott, W. H., 1978, Austral. J. Exper. Agric. and Animal Husb. (92), v. 18, 340-346
 nematodes, sheep, 3 systems for post-weaning management, grazing alternately with cattle, twice-yearly levamisole treatment, live-weight and wool production

Animal husbandry

Bauer, B.; et al., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (21), 413-418
endoparasite control with panacur in Criollo x Zebu x Charolais calves under extensive management conditions in the tropics

Animal husbandry

Bobkova, A. F., 1970, Nauch. Trudy, Nauchno-Issled. Vet. Inst., v. 8, 77-82
dictyocaulosis, calves, prophylactic measures (pasture rotation, maintenance in small groups, strict isolation)

Animal husbandry

Borgsteede, F. H. M.; and Kloosterman, A., 1977, Tijdschr. Diergeneesk., v. 102 (24), 1428-1436
bovine gastrointestinal helminths, infestation of cattle on pasture in relation to time of mowing, yearly cycle of larvae on grassland, epidemiology reviewed, prophylactic measures: Netherlands

Animal husbandry

Bowen, F. L., 1979, Austral. J. Exper. Agric. and Animal Husb. (98), v. 19, 269-275
nematodes, weaner cattle, treatment/management procedure involving alternate grazing with sheep and monthly treatment with cambendazole, liveweight changes, financial returns: Northern Tablelands of New South Wales

Animal husbandry

Cargill, C. F.; and Dobson, K. J., 1979, Vet. Rec., v. 104 (2), 33-36
Sarcoptes scabiei var. suis, growing pigs housed and fed under optimal and sub-optimal conditions of management, effect of experimental infections on growth rates and feed conversion efficiencies, concluded that loss of productivity is closely related to intensity of hypersensitivity reaction

Animal husbandry

Carmel, D. K.; and Todd, A. C., 1979, Vet. Med. and Small Animal Clin., v. 74 (7), 1019, 1022-1026
nematodes, dairy cows, prevalence and distribution in environment of 3 farms, role of management practices: Wisconsin

Animal husbandry

Darvill, F. M.; Arundel, J. H.; and Brown, P. B., 1978, Austral. Vet. J., v. 54 (12), 575-584
Ostertagia, Trichostrongylus, maiden ewes, effect of pre-lambing and post-lambing thiabendazole treatment on pasture contamination by ewes and on bodyweights of ewes and lambs

Animal husbandry

Donald, A. D.; et al., 1979, Vet. Parasitol., v. 5 (2-3), 205-222
gastrointestinal nematodes with major emphasis on Ostertagia ostertagi, beef cattle, levels of infection and effects on live-weight gain, effects of pasture type (phalaris vs. lucerne) and stocking rate, effects of anthelmintic treatment, 4-year experiment: Canberra, Australia

Animal husbandry

Euzeby, J., 1977, Rev. Med. Vet., Toulouse, v. 128 (12), 1589-1625
gastrointestinal helminths, cattle breeding, therapeutic and prophylactic control, nutrition and selection of resistant strains of cattle, extensive review: west Europe

Animal husbandry

Euzeby, J., 1978, Rev. Med. Vet., Toulouse, v. 129 (2), 193-198, 201-222, 226-233
gastro-intestinal helminthiasis, modern cattle breeding, control by environmental methods, review: western Europe

Animal husbandry

Gibson, T. E.; and Everett, G., 1971, J. Comp. Path., v. 81 (4), 493-498
Ostertagia and Trichostrongylus spp., lambs treated with thiabendazole and moved to clean pasture had lowest worm burden

Animal husbandry

Gibson, T. E.; and Everett, G., 1978, Research Vet. Sc., v. 24 (2), 169-173
Ostertagia circumcincta, lambs (exper.), effect of different levels of larval intake on egg output and worm burden, protection against reinfection conferred by low level of initial infection, implications for husbandry practice

Animal husbandry

Graefner, G.; Graubmann, H. D.; and Kron, A., 1978, Monatsh. Vet.-Med., v. 33 (23), 910-912
Eimeria spp., cattle on rearing and fattening farms, intensity and extensity of infection in relation to certain environmental conditions: DDR

Animal husbandry

Hall, R. D.; Turner, E. C., jr.; and Gross, W. B., 1978, Poultry Science, v. 57 (2), 564-566
Ornithonyssus sylviarum, commercial laying hens, higher populations of mites on birds caged alone, importance as survey tool in pest management programs

Animal husbandry

Harmsen, H. E., 1978, Publikatie (10), Proefsta. Rundveehouderij, 49-55
lungworms, gastro-intestinal nematodes, calves, control program

Animal husbandry

Hiepe, T.; Romeyke, D.; and Jungmann, R., 1978, Monatsh. Vet.-Med., v. 33 (23), 904-910
Eimeria spp., calves reared under conditions of industrialized cattle farming, course of infection, clinical symptoms, monthly distribution, control measures: DDR

Animal husbandry

Humphrey, J. D., 1979, Austral. Vet. J., v. 55 (4), 205-207 [Letter]
helminths of domestic fowl (alimentary tract), prevalence under 3 systems of management (intensive, semi-intensive, extensive), highland vs. lowland: Papua New Guinea

Animal husbandry

- Jørgensen, R. J.; et al., 1978, Vet. Parasitol., v. 4 (1), 55-68
 Ostertagia ostertagi, calves from previous field experiment that had been subjected to various combinations of pasture moving and anthelmintic treatment, infection parameters and body weight gains following housing

Animal husbandry

- Johnstone, I. L.; Coote, B. G.; and Smart, K. E., 1979, Austral. J. Exper. Agric. and Animal Husb. (99), v. 19, 414-418
 pre- and/or post-lambing anthelmintic treatment, effect on lamb birth weight and live-weight gain, fecal egg counts, pasture contamination: New South Wales

Animal husbandry

- Karabaev, D. K.; Kuznetsov, V. I.; Dement'ev, I. S., 1978, Vestnik Sel'skokhoz. Nauki Kazakhstana (6), 62-65
 helminthiasis of livestock on large specialized farms, current situation, prophylactic measures recommended: Kazakhstan

Animal husbandry

- Krivanec, K.; et al., 1979, Veterinarstvi, v. 29 (6), 266-267
 nematodes, swine, influence of production technology on prevalence, large scale farms

Animal husbandry

- de Leon, D.; and Soldevila, M., 1978, J. Agric. Univ. Puerto Rico, v. 62 (4), 428-430
 Capillaria annulata, Heterakis gallinarum, fatal infection in Numida meleagris (crop, caeca), case report, commercial producers must observe strict cleanliness and management practices: Puerto Rico

Animal husbandry

- Long, P. L.; Millard, B. J.; and Smith, K. M., 1979, Avian Path., v. 8 (4), 453-467
 Eimeria spp., chickens, effect of 4 anti-coccidial drugs on development of immunity, field and laboratory conditions

Animal husbandry

- de Melo, H. J. H., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (3), 269-277
 helminths, weaned Zebu calves reared extensively on Jaragua grass, different schemes of treatment, effect of anthelmintic treatment on host growth seems to be conditioned to environmental conditions, especially nutrition

Animal husbandry

- Miller, R. F., 1979, Proc. 1979 Maryland Nutrition Conf. Feed Mfr. (University of Maryland, Mar. 15-16), 87-96
 parasitism, ruminants, influence on utilization of nutrients, timing of treatment, milk production, reproduction, review

Animal husbandry

- Nansen, P.; et al., 1978, Vet. Sc. Commun., v. 2 (3), 193-205
 trichostrongylid, grazing cattle, factors influencing fluctuations in herbage contamination, epidemiological consequences of intensification of animal husbandry methods: Denmark

Animal husbandry

- Nansen, P.; Midtgaard, N., 1977, Nord. Vet.-Med., v. 29 (6), 257-262
 Fasciola hepatica, sheep, high frequency in adults and strikingly low frequency in lambs results from marshland management system; summer grazing on dike and its seaward side where snail vectors are not found prevents lamb infection; massive infection of adults also prevented: South-western Jutland

Animal husbandry

- Neville, W. E., jr.; Stewart, T. B.; and McCormick, W. C., 1977, J. Animal Sc., v. 44 (6), 1119-1126
 nematodes, early-weaned and suckling calves, difference in egg counts and weight gain under different rearing regimes

Animal husbandry

- Norman, L. M.; and Hohenboken, W., 1979, J. Animal Sc., v. 48 (6), 1329-1337
 parasites, foot soundness, and attrition, crossbred ewes, genetic and environmental effects (irrigated vs. nonirrigated pastures): western Oregon

Animal husbandry

- Peron, E.; and Mauri, M., 1977, Rev. Cubana Cien. Vet., v. 8 (2), 13-21
 Dictyocaulus viviparus, calves, extent of invasion, results correlated with climatic conditions regardless of management-rotation changes; lower incidence in older animals: Cuba

Animal husbandry

- Pouplard, L.; and Pecheur, M., 1977, Hohenheimer Arbeit., Reihe Tier Prod. (87), 64 pp.
 helminthiasis, cattle, epizootiology, therapeutic and husbandry control methods, monographic review

Animal husbandry

- Raynaud, J. P., 1978, Point Vet. (35), v. 7, 49-63
 nematodes, calves, seasonal prevalence, relationship with husbandry methods: 4 regions of France

Animal husbandry

- Sinha, R. P.; and Dubey, R. K., 1978, Indian Vet. J., v. 55 (5), 372-376
 Anaplasma marginale outbreak in non-preimmune Jersey cattle imported from United States and Denmark to farm in Bihar, clinical symptoms and pathological findings, epizootiological factors responsible for outbreak (high ambient temperature, stress of vaccination for rinderpest virus, presence of tick vectors), control achieved through chemotherapy of sick and healthy animals, removal of vectors, and housing in cool sheds; outbreaks in exotic herds could be avoided if cattle were imported in early winter: India

Animal husbandry

- Stewart, T. B.; and Neville, W. E., jr., 1977, J. Animal Sc., v. 44 (1), 124-130
 nematodes, early-weaned calves on drylot vs. suckling calves on pasture, differences in egg counts and weight gains: south Georgia

Animal husbandry

- Straat, H., 1979, *Trop. Animal Health and Prod.*, v. 11 (2), 71-83
 trichostrongylosis, dairy calves, control: rotational grazing vs. set stocking, daily removal of feces from fields, nutritional level: Kenya

Animal husbandry

- Supperer, R., 1973, *Tieraerztl. Prax.*, v. 1 (1), 33-42
 parasitic diseases of swine, intensive rearing, treatment and control measures, review

Animal husbandry

- Sutherst, R. W.; et al., 1979, *J. Applied Ecol.*, v. 16 (2), 359-382
Boophilus microplus, cattle, analysis of 3 control methods used separately and in combination (acaricides, pasture spelling, tick-resistant cattle), computer model of tick population: Australia

Animal husbandry

- Taylor, S. M.; Kilpatrick, D.; and Kenny, J., 1978, *Zentralbl. Vet.-Med.*, Reihe B, v. 25 (4), 282-289
Trichinella spiralis, pigs, evaluation of enzyme linked immuno-sorbent assay, influence of husbandry and age of host on extinction values

Animal husbandry

- Thomas, R. J., 1978, *Vet. Rec.*, v. 102 (18), 394-397
 gastrointestinal nematodes and lungworms of sheep, fenbendazole in-feed medication highly effective against inhibited larvae and most adults, implications for control of pasture contamination

Animal husbandry

- Tongson, M. S.; et al., 1978, *Philippine J. Vet. Med.*, v. 17 (1-2), 85-100
 intestinal nematodes, beef cattle, frequency of deworming determined that will effect the most economical weight gains: Philippines

Animal husbandry

- Watts, J. E.; Dash, K. M.; and Lisle, K. A., 1978, *Austral. Vet. J.*, v. 54 (7), 352-355
 diarrheic feces caused by helminth infection predispose sheep to breech strike, anthelmintic treatment and other management factors reduced incidence of breech strike: New South Wales

Animal husbandry

- Watts, J. E.; and Luff, R. L., 1978, *Austral. Vet. J.*, v. 54 (7), 356-357
 importance of Mules operation and medium length tails in control of breech strike in scouring Merino sheep: New South Wales

Animal husbandry

- Wescott, R.; and Shelton, T., 1979, *West. Veterinarian*, v. 17 (2), 11-14
 internal parasites, cattle, prevalence on 5 ranches, effect of types of pasture, management practices, age of host, and treatment with thiabendazole: Butte County, Idaho

Animal husbandry

- Whitlock, J. H., 1978, *Cornell Vet.*, v. 68 (2), 250-251
 trichostrongyloids, construction of a permanent campground for sheep in attempt to control parasites based on knowledge of sheep behavior

Anomalies, Parasite

- Agrawal, N.; and Pandey, K. C., 1979, *J. Helminth.*, v. 53 (2), 130-131
Telorchis sp., new record of intramiracidial redia

Anomalies, Parasite

- Bergstrom, R. C.; and Werner, B. A., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (2), 234-236
Trichostrongylus colubriformis, *Nematodirus spathiger*, recovery and development of abnormal eggs from sheep feces

Anomalies, Parasite

- Byram, J. E.; and Byram, K. W., 1976, *Rice Univ. Studies*, v. 62 (4), 43-67
Moniliformis dubius, larval morphogenesis in *Periplaneta americana*, effect of temperature, season, photoperiod, and elevated temperature stress, morphological anomalies

Anomalies, Parasite

- Cerna, Z.; and Senaud, J., 1971, *Folia Parasitol.*, v. 18 (2), 177-178
Eimeria stiedai, peculiarities of fine structure of merozoites

Anomalies, Parasite

- Elmossalami, E.; and El-Nawawi, F., 1971, *Vet. Med. J. Giza*, v. 19 (19), 47-76
Taenia hyaenae (*Cysticercus dromedarii*), camels, morphology, incidence, predilection sites, 2 abnormal forms reported, differential diagnosis of degenerative forms from other common parasites of camels, need to include shoulder in routine carcass examination, unsuccessful attempt to infect dogs and jackals: Egypt

Anomalies, Parasite

- Ghosh, R. K.; and Srivastava, C. B., 1976, *J. Zool. Soc. India*, v. 26 (1-2), 143-145
Astiotrema reniferum, abnormal development of vitellaria

Anomalies, Parasite

- Goncharov, A. I., 1972, *Parazitologiya, Leningrad*, v. 6 (2), 133-136
Ceratophyllus styx riparius, female fixed in copula was found to possess 2 spermathecae: Churapchinsk region, Iakutsk ASSR

Anomalies, Parasite

- Goncharov, A. I., 1972, *Parazitologiya, Leningrad*, v. 6 (5), 465-468
Nosopsyllus laeviceps, *Amphipsylla kuznetzovi*, castrated males, abdominal structure, implications for normal structure, corroboration of Wagner's 12-segment scheme of abdominal structure of fleas

Anomalies, Parasite

- Gothe, R.; Stendel, W.; and Holm, R., 1977, *Ztschr. Parasitenk.*, v. 53 (1), 123-128
Ixodes canisuga, scanning electron microscopy of areae porosae of aberrant specimen

Anomalies, Parasite

- Kremer, M.; Rebholtz, C.; and Rieb, J. P., 1978, *Ann. Parasitol.*, v. 53 (4), 439-440
Dermatobia hominis, 3rd stage larvae, pattern of stigmatic plates, observation of an anomaly

Anomalies, Parasite

- Lester, R. J. G.; and Wright, K. A., 1978, *J. Invert. Path.*, v. 31 (3), 271-274
Metechinorhynchus salmonis, abnormal swellings in tegument, apparently due to build-up of glycogen and phospholipid, no protozoan, bacterial, or viral pathogen found, suggests that abnormality may be due to metabolic dysfunction

Anomalies, Parasite

- Li, K. C.; and Wang, D. C., 1977, *Acta Entom. Sinica*, [Transl.], v. 16 (2), 147-155
 fleas, malformations

Anomalies, Parasite

- Lucinska, A., 1978, *Polskie Pismo Entom.*, v. 48 (2), 197-201
Columbicola bacillus, gynandromorph

Anomalies, Parasite

- Mackiewicz, J. S., 1978, *Proc. Helminth. Soc. Washington*, v. 45 (1), 28-33
Glaridacris catostomi, *Penarchigetes* sp., anomalies involving duplication of reproductive systems; *Promonobothrium minytremi*, lateral swelling containing additional testes

Anomalies, Parasite

- Mikhail, J. W.; and Fahmy, M. A. M., [1977], *Egypt. J. Vet. Sc.*, v. 13 (1), 1976, 63-67
Hymenolepis nana, anomalies

Anomalies, Parasite

- Namitkov, A. A., 1972, *Parazitologiya*, *Leninograd*, v. 6 (2), 161-162
[Hymenolepis nana], specimen with multiple anomalies

Anomalies, Parasite

- Nilsson, B., 1976, *Ang. Parasitol.*, v. 17 (4), 223-225
Goniodes colchici, gynandromorph

Anomalies, Parasite

- Ohmori, Y.; and Ohbayashi, M., 1975, *Kiseichugaku (Japan. J. Parasitol.)*, v. 24 (6), 375-378
Quilonia travancra, female, arrangement of somatic muscle cells, muscle deficiency found in female *Decrusia additicta*

Anomalies, Parasite

- Palma, R. L.; and Pilgrim, R. L. C., 1977, *N. Zealand Entom.*, v. 6 (3), 290-292
Halipeurus consimilis, abnormal male without genitalia

Anomalies, Parasite

- Pandey, B. B.; and Rai, P., 1976, *U. P. Vet. J.*, v. 4 (2), 96-97
Multiceps multiceps with six suckers found in experimentally infected puppy (intestine), may be genetic aberration

Anomalies, Parasite

- Rego, A. A., 1968, *Atas Soc. Biol. Rio de Janeiro*, v. 11 (5), 177-178
Hymenolepis diminuta, irregularity of testes and other organs

Anomalies, Parasite

- Sakamoto, T., 1978, *Mem. Fac. Agric. Kagoshima Univ.* (23), v. 14, 103-107
Echinococcus granulosus and *E. multilocularis*, in vitro cultures, anomalies of protoscoleces, morphological classification and frequency

Anomalies, Parasite

- Sakamoto, T.; and Gemmell, M. A., 1978, *J. Parasitol.*, v. 64 (1), 185-187
Echinococcus granulosus, *E. multilocularis*, protoscoleces, frequency of anomalies

Anomalies, Parasite

- Uchida, A.; and Itagaki, H., 1976, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 25 (3), 170-174
Mesocoelium elongata, *Glypthelmins rugo-caudata*, abnormalities

Antigenic variation. See Immunity, Antigenic variation.

Antigens. See Immunity, Antigens.

Appendicitis. See Appendix.

Appendix

- Gutierrez Manay, J.; Garcia Calderon, J.; and Hidalgo Pallette, A., 1973, *Rev. Med. Caja Nac. Seguro Soc.*, Lima, v. 22 (3), 402-404
Enterobius vermicularis, *Balantidium coli*, human, cause of appendicitis, search of surgical case records: Peru

Appendix

- Jofre Gutierrez, J. A.; et al., 1974, *Rev. Espan. Enferm. Apar. Digest.*, v. 44 (6), 575-580
Enterobius vermicularis, humans, verminous appendicitis, clinical review

Appendix

- Thiery, G., 1978, *Ann. Immunol.*, v. 129C (4), 503-522
 rabbit's appendix, immunological model applied to study of epithelial immunity, including that against coccidiosis

Archeology. See Parasitology, History.

Argentina

- Pignatari de Martinez, F. M. R.; Monetto de Ledesma, A. M.; and Grosso, O. J., 1974, *Rev. Fac. Cien. Med. Univ. Nac. Cordoba*, v. 32 (2), 183-186
 survey of pig breeding farms for incidence of parasites, special emphasis on parasites affecting man: provincia de Cordoba, Argentina
(Balantidium coli; Iodamoeba butschlii; otras amebas; Trichomonas suis; Eimeria sp.; Ascaris suis; Strongyloides ramsoni; Trichuris trichiura; Bonostomum; Globocephalus; Oesophagostomum)

Argentina

- Robles, F. R.; Costamagna, S. R.; and Toranzo, A., 1977, *Rev. San. Mil. Argent.*, v. 76 (3-4), 110-111
 survey, human intestinal parasites: Rio Seco, province of Tucuman, Republic of Argentina (Strongyloides stercoralis; Entamoeba coli; Giardia lamblia; Trichuris trichiura; Blastocystis hominis; Ascaris lumbricoides; Trichomonas hominis; Tenia; Iodameba butschli; Chilomastix mesnili)

Armies, Parasites. See Medicine, Military.

Arrested development. See Development.

Arthritis

- Bouvet, J. P.; Therizol, M.; and Auquier, L., 1977, *Acta Trop.*, v. 34 (3), 281-284
 Loa loa, man (blood, synovial fluid, soft tissue of ankle and knees), case report, polyarthritis related to presence of intra-articular microfilariae

Arthritis

- May, V.; et al., 1973, *Rev. Rhumatisme et Mal. Osteo-Art.*, v. 40 (10), 602-605
 Schistosoma haematobium, human, clinical manifestations of rheumatoid arthritis, 2 clinical case reviews: France (natives of Mali)

Arthritis

- Steere, A. C.; Broderick, T. F.; and Malawista, S. E., 1978, *Am. J. Epidemiol.*, v. 108 (4), 312-321
 Ixodes scapularis, epidemiologic evidence and tick survey support hypothesis that erythema chronicum migrans and Lyme arthritis are tick-transmitted: southcentral Connecticut

Arthritis

- Wallis, R. C.; et al., 1978, *Am. J. Epidemiol.*, v. 108 (4), 322-327
 survey of tick populations in areas of high and low incidence of erythema chronicum migrans and Lyme arthritis, like incidence of disease Ixodes scapularis was more abundant in communities on east compared to west side of Connecticut River; attempts to isolate etiologic agent unsuccessful: southcentral Connecticut

Arthritis

- Wyburn-Mason, R., 1979, *Med. Hypotheses*, v. 5 (11), 1237-1249
 Naegleria, possible cause of rheumatoid disease and many human cancers through chronic antigenic stimulation by the Naegleria, review of new medical concept

Asia

- Tokobaev, M. M., 1976, [Helminths of wild mammals of Central Asia. Attempt at ecological-geographic analysis], 178 pp.
 helminths, wild mammals, systematics, ecological-geographic analysis, monograph: Central Asia

Asthma

- Gold, W. M.; et al., 1977, *J. Applied Physiol.*, v. 43 (2), 271-275
 changes in airway mast cells and histamine caused by specific antigen aerosol in Ascaris suum-allergic dogs

Asthma

- Higenbottam, T. W.; and Heard, B. E., 1976, *Thorax*, v. 31 (2), 226-233
 Strongyloides stercoralis, man, opportunistic pulmonary infection complicating asthma treated with steroids, case report of fatal illness; emphasis on need for diagnostic awareness: London

Asthma

- Iablokov, D. D.; Mosin, G. P.; and Volkov, V. T., 1979, *Terap. Arkh.*, v. 51 (4), 43-45
 opisthorchiasis associated with asthma, humans, clinical management, therapy

Asthma

- Lopez-Brea, M.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 600 [letter]
 Giardia lamblia infection should be sought in children with bronchial asthma or chronic diarrhea

Asthma

- Turner, K. J.; Quinn, E. H.; and Anderson, H. R., 1978, *Immunology*, v. 35 (2), 281-288
 asthmatic subjects from Papua New Guinea had total serum IgE levels higher than Caucasian asthmatics but similar levels of IgE antibody to mite antigens, mite-specific antibody levels were independent of those to Ascaris and hookworm, implications for possible mechanism of regulation of asthma by intestinal parasites

Asthma

- Wanner, A.; et al., 1979, *J. Applied Physiol.*, v. 47 (5), 917-922
 airway responses to bronchial challenge with Ascaris suum extract in sensitized conscious sheep, correlation of physiological changes with blood histamine levels

Asthma

- Weissburg, R. M.; and Garay, G. L., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (1), 85-94
 Ascaris suum-induced immediate-type respiratory responses in conscious Macaca mulatta

Attachment

- Amin, O. M., 1974, *J. Med. Entom.*, v. 11 (2), 227-230
 Cediopsylla simplex from Sylvilagus floridanus, intraspecific variations in genal and pronotal combs in male vs. female fleas, implications for effective lodging and survival

Attachment

- Baker, J. R.; and Liston, A. J., 1978, *J. Gen. Microbiol.*, v. 104 (1), 79-89
 Trypanosoma dionisii, effect of various agents (including temperature, complement, trypsin, cytochalasin B and immune plasma) on attachment and entry to mouse peritoneal macrophages in vitro, and subsequent morphogenesis; attachment occurred to non-specific receptors, entry by phagocytosis

Attachment

- Banks, K. L., 1978, *J. Protozool.*, v. 25 (2), 241-245
 Trypanosoma congolense, rats, rabbits, localization of parasite in microvasculature is established by attachment of the organism to the vessel wall

Attachment

- Banks, K. L., 1979, J. Protozool., v. 26 (1), 103-108
Trypanosoma congolense, in vitro binding to erythrocytes: method of studying trypanosome-host cell interaction, erythrocyte and trypanosome surface properties necessary for adhesion

Attachment

- Beveridge, I., 1979, J. Helminth., v. 53 (3), 229-244
Hypodontus macropi, synonymy, redescription, host and geographic distribution, distribution within host, method of attachment, gross and histopathological changes, description of free-living larval stages

Attachment

- Binnington, K. C., 1978, Internat. J. Parasitol., v. 8 (2), 97-115
Boophilus microplus, salivary glands during attachment and feeding, gross anatomy, number of cell types and changes in morphology during development, histochemistry, enzymes, physiological functions of cell secretions

Attachment

- Brown, S. J.; Bohnsack, K. K.; and Atkins, M. D., 1979, J. Kansas Entom. Soc., v. 52 (2), 258-263
Dermacentor variabilis, nymphs, effects of acclimation humidities on survival and subsequent attachment and engorgement on guinea pigs

Attachment

- Coil, W. H., 1977, Ztschr. Parasitenk., v. 52 (1), 53-59
Fascioloides magna miracidia, scanning electron microscopy of penetration of snail *Fossaria bulimoides*, attraction, attachment, morphology of apical papilla and epidermal plates, shedding of cilia and epidermal plates

Attachment

- Doube, B. M.; and Kemp, D. H., 1979, Internat. J. Parasitol., v. 9 (5), 449-454
Boophilus microplus, attachment and survival of larvae on skin slices in vitro, influence of temperature, relative humidity, and host factors

Attachment

- Ebert, F.; Buse, E.; and Muehlpfordt, H., 1979, Ztschr. Parasitenk., v. 59 (1), 31-41
Leishmania donovani, virulent vs. avirulent promastigotes in hamster peritoneal macrophages in vitro, attachment, process of engulfment, amastigote multiplication, localization, light and electron microscopy

Attachment

- Feider, Z.; and Mironescu, I., 1972, Acarologia, v. 14 (1), 21-31
Mesonyssus gerschii n. sp., *M. hirsutus*, *Rhinonyssus colymbicola*, method of attachment to host nasal mucosa

Attachment

- Hayunga, E. G., 1979, J. Fish Dis., v. 2 (3), 239-248
Glaridacris catostomi, *G. laruei*, and *Hunterella nodulosa* in *Catostomus commersoni*, fine structure of parasite-host interface at site of attachment, intestinal pathology, light and electron microscopy: vicinity of Albany, New York

Attachment

- Inman, L. R.; and Takeuchi, A., 1979, Vet. Path., v. 16 (1), 89-95
Cryptosporidium cuniculus [n. sp.?] in asymptomatic *Oryctolagus cuniculus* (ileum), electron microscopy (transmission and scanning), altered intestinal microvilli in attachment of parasite

Attachment

- Kearn, G. C., 1978, Internat. J. Parasitol., v. 8 (4), 305-311
Horricauda rhinobatidis and *Troglocephalus rhinobatidis* from *Rhinobatos batillum* (gills), level of infestation, microhabitat, larval development of *Horricauda*, possible role of certain structures in attachment and feeding: Queensland, Australia

Attachment

- Kleinschuster, S. J.; Hepler, D. I.; and Voth, D. R., 1978, Vet. Sc. Commun., v. 2 (3), 237-241
Nematospiroides dubius, mice, mechanism of attachment appears to be primary longitudinal striae of the cuticle which embed into the host's intestinal villi

Attachment

- Lee, T. D. G.; and Wright, K. A., 1978, Canad. J. Zool., v. 56 (9), 1889-1905
Trichuris muris in *Mus musculus*, morphology of attachment and probable feeding site, light, scanning, and transmission electron microscopy

Attachment

- Leigh, W. H., 1978, J. Parasitol., v. 64 (5), 831-834
Odhneriotrema incommodum, life history observations: metacercarial stage in *Lepisosteus platyrhincus* shows marked affinity for female hosts; molluscan host unknown; migration after excystment in Alligator mississippiensis, host reaction (caused by secretions from parasite glands) forces relocation every few days, nature of host-parasite junction

Attachment

- Lom, J., 1971, Folia Parasitol., v. 18 (3), 197-205
Trichophrya piscium, fine structure in relation to fish host, feeding, attachment, ultrastructural evidence is in favour of ectocommensal nature of this protozoon

Attachment

- Lombardero, O. J.; and Moriena, R. A., 1977, Rev. Med. Vet., Buenos Aires, v. 58 (2), 141-142
Mazzia mazzia, redescription, an attaching element named "proboscioide" found in buccal capsule

Attachment

- McCaul, T. F., 1977, Ztschr. Parasitenk., v. 52 (3), 203-211
Entamoeba histolytica trophozoites in contact with tissue culture cells with intact cell membranes, transmission electron microscopy of phagocytosis, attachment, endoplasmic streaming, and micropseudopodia

Attachment

- Michel, R.; and Hohmann, R., 1979, Ztschr. Parasitenk., v. 60 (2), 123-133
Entamoeba histolytica, attachment to glass surfaces at different temperatures and pH values and in presence of cytochalasin B, colchicine, and vinblastine

Attachment

- Mills, C. A., 1979, J. Fish. Dis., v. 2 (5), 443-447
Transversotrema patialense adults, attachment and feeding on *Brachydanio rerio*

Attachment

- Molyneux, D. H., 1977, Protozoology, v. 3, 83-86
Trypanosoma grayi, attachment to hindgut of *Glossina tachinoides* by hemidesmosomes, significance discussed

Attachment

- Natarajan, P.; and Nair, N. B., 1972, Hydrobiologia, v. 40 (1), 69-76
Pseudocycnus armatus on *Indocybium guttatum* (gills), position and organs of attachment, mouth cone, alimentary canal, pathological effects, histopathology: Trivandrum beach, south-west coast of India

Attachment

- Oliver, G., 1977, Ztschr. Parasitenk., v. 53 (1), 7-11
Diplectanum aequans, pathogenic effect of fixation on gills of *Dicentrarchus labrax*

Attachment

- Ormieres, R., 1977, Ztschr. Parasitenk., v. 53 (1), 13-22
Pyxinia firmus, ultrastructure of epimerite, possible functions in fixation and nutrition

Attachment

- Owen, R. L.; Nemanic, P. C.; and Stevens, D. P., 1979, Gastroenterology, v. 76 (4), 757-769
Giardia muris in immunocompetent mice, intestinal distribution of trophozoites, attachment and relationships to intestinal mucosa (particularly Peyer's patches), normal reaction of intestine and intestinal immune organs; includes some incidental observations on *Hexamita muris*

Attachment

- Palmieri, J. R., 1977, Great Basin Nat., v. 37 (3), 375-382
Posthodiplostomum minimum, host-induced variations in size, shape, and complexity of oral sucker, acetabulum, and holdfast organ

Attachment

- Radlett, A. J., 1979, Parasitology, v. 79 (3), 411-416
Notocotylus attenuatus, in domestic fowl, in vivo excystation of metacercariae, intra-caecal growth and movement of worms, attachment of juvenile worms to host's caecum

Attachment

- Shaw, M. K., 1979, Ztschr. Parasitenk., v. 58 (3), 243-258
Gastrocotyle trachuri, ultrastructure of clamp wall, possible role in attachment

Attachment

- Shaw, M. K., 1979, Ztschr. Parasitenk., v. 59 (1), 43-51
monogeneans, ultrastructure of clamp sclerites

Attachment

- Shaw, M. K., 1979, Ztschr. Parasitenk., v. 59 (3), 277-294
Gastrocotyle trachuri, development of clamp attachment organs, electron microscopy

Attachment

- Tulloch, G. S.; et al., 1977, Tr. Am. Micr. Soc., v. 96 (1), 41-47
Schistosoma mattheei, surface structures of integument suggest basic adaptations for clasping of male and female schistosomes and for parasite attachment to host, scanning electron microscopy; taxonomic implications

Attachment

- Val'ter, E. D., 1973, Parazitologiya, Leninograd, v. 7 (3), 275-279
Contracaecum aduncum, morphology of cephalic end, implications for method of attachment to host tissue

Attachment

- Waladde, S. M.; and Rice, M. J., 1978, J. Austral. Entom. Soc., v. 16 (4), 1977, 441-453
Boophilus microplus, ultrastructure and electrophysiology of cheliceral receptors (sensory function)

Attachment

- Williams, G. W., 1942, J. Morphol., v. 70 (3), 545-589
Metaradiophrya lumbrici, detailed description, movement and attachment behavior, cytology of division; description of other *Metaradiophrya* spp. and comparison with *M. lumbrici*

Attractants. [See also Host perception by parasites; Pheromones; Taxis]

Attractants

- Awad, M.; and Bell, D. R., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 389-390
Schistosoma mansoni, experiments to determine what attractants cause worms to migrate from liver to mesenteric veins around colon of host, results support hypothesis that feces contain an attractant

Attractants

- Bone, L. W.; et al., 1979, J. Exper. Zool., v. 208 (3), 311-318
Nippostrongylus brasiliensis, aggregation and sex pheromones, chromatographic fractionation

Attractants

- Broce, A. B.; Davey, R. B.; and Snow, J. W., 1979, J. Econom. Entom., v. 72 (1), 115-118
Cochliomyia hominivorax-attracting survey units, use of plastic wicks as slow release mechanism for chemical attractant Sworm-lure-2

Attractants

Broce, A. B.; Goodenough, J. L.; and Coppedge, J. R., 1977, *J. Econom. Entom.*, v. 70 (4), 413-416

Cochliomyia hominivorax, development of efficient wind-oriented trap for catching screwworm flies as they move upwind toward Swormlure-2 attractant, compared with standard blowfly trap

Attractants

Coppedge, J. R.; et al., 1978, *J. Econom. Entom.*, v. 71 (3), 483-486

Cochliomyia hominivorax, development and field evaluation of bait system (SWASS) containing dichlorvos and bait for suppression of adult screwworms

Attractants

Coppedge, J. R.; Ahrens, E. H.; and Snow, J. W., 1978, *J. Econom. Entom.*, v. 71 (4), 573-575

Cochliomyia hominivorax, swormlure-2 baited traps for detection of native fly populations, trial survey, use in developing fly-release strategies: 12 south Texas counties

Attractants

Gilbert, B.; Pellegrino, J.; and dos Santos Filho, D., 1971, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 4 (4-5), 315-316

Schistosoma mansoni, laboratory studies using *Enterolobium* hexane extract as a stimulant for the first stages of cercarial penetration, cercariae burrowed into thin layer of extract without separation of head from tail during penetration

Attractants

Mansour, T. E., 1979, *Science* (4405), v. 205, 462-469

helminths, regulation of motility, metabolism, chemotaxis, and egg formation in relation to development of new and more selective chemotherapeutic agents, review

Attractants

Mason, P. R., 1979, *J. Parasitol.*, v. 65 (5), 819-820

ammonia excretion by *Biomphalaria pfeifferi* (natural host for *Schistosoma mansoni*) almost twice that excreted by *Bulinus globosus*, possible mechanism for host selection by *S. mansoni* miracidia

Attractants

Prechel, D. P.; and Nollen, P. M., 1979, *J. Parasitol.*, v. 65 (3), 446-450

Megalodiscus temperatus, effects of miracidial aging and dilution of snail-conditioned water on responses of miracidia

Attractants

Rechav, Y., 1978, *Experientia*, v. 34 (4), 478-479

Amblyomma hebraeum, lack of daily rhythm in release of assembly pheromones

Attractants

Rechav, Y.; et al., 1978, *Nature*, London (5678), v. 275, 310-311

Ixodes neitzi, attraction of adult ticks to twigs marked by *Oreotragus oreotragus* (klip-springer antelope), first report of tick species locating its mammalian host by detecting specific chemical compound(s) used by host as communicative marking signal thus increasing probability of survival in that particular habitat

Attractants

Schmidt, J.; and All, J. N., 1979, *Environment. Entom.*, v. 8 (1), 55-61

Neoaplectana carpocapsae dauerlarvae, attraction to common excretory products of *Galleria mellonella*

Attractants

Thomas, J. D.; and Assefa, B., 1979, *Comp. Biochem. and Physiol.*, v. 63C (1), 99-108

Biomphalaria glabrata juveniles, behavioral responses to amino acids, possible practical application in control of snail hosts of schistosomiasis

Attractants

Uhazy, L. S.; Tanaka, R. D.; and MacInnis, A. J., 1978, *Science* (4359), v. 201, 924-926

Schistosoma mansoni, identification of chemicals that attract or trap its snail vector, *Biomphalaria glabrata*, results indicate that it should be possible to formulate slow- or no-release molluscicides coupled with controlled-release attractants, may attract and kill larval schistosomes as well as snail vectors

Australia

Henderson, A. W. K.; and Kelly, J. D., 1978, *Trop. Animal Health and Prod.*, v. 10 (2), 63-73

helminths, cattle, field autopsy and abattoir survey, seasonal fluctuation in relation to temperature and rainfall: northern Australia (*Haemonchus placei*; *Cooperia pectinata*; *C. punctata*; *Oesophagostomum radiatum*; *Moniezia benedini*; *Bunostomum phlebotomum*; *Nematodirus spathiger*; *Cooperia oncophora*; *Calicophoron calicophorum*; *Onchocerca gibsoni*)

Australia

Robinson, J. F.; et al., 1978, *Tr. Roy. Soc. South Australia*, v. 102 (3-4), 59-70

ectoparasites of rodents and marsupials, host habitat: Australia

Australia, New South Wales

Dent, C. H. R.; and Howkins, A. B., 1978, *Austral. Vet. J.*, v. 54 (9), 452 [Letter]

cestodes of dogs: Blayney Shire, New South Wales (*Echinococcus granulosus*; *Taenia* spp.; *Dipylidium caninum*; *Spirometra* sp.)

Australia, Queensland

English, A. W., 1979, Austral. Vet. J., v. 55 (7), 310-314

helminths, horses, prevalence: Albany Creek abattoir, near Brisbane, southern Queensland (Strongylus vulgaris, S. equinus, S. edentatus; Triodontophorus sp.; Anoplocephala perfoliata)

Austria

El-Moukdad, A. R., 1977, Wien. Tierarztl. Monatschr., v. 64 (10), 283-288

endoparasites of sheep in Austria (Trichostrongylus capricola; Trichostrongylus longispicularis; Nematodirus helvetianus; Cooperia oncophora; Ostertagia leptospicularis; Marshallagia marshalli; Ostertagia pinnata; O. occidentalis; Capillaria bovis; Ostertagia circumcincta; Trichostrongylus axei; Nematodirus spathiger; Trichuris ovis; Nematodirus filicollis; Ostertagia trifurcata; Trichostrongylus vitrinus; T. colubri-formis; Trichuris skrjabini; Bunostomum trigonocephalum; Chabertia ovina; Strongyloides papillosus; Haemonchus contortus; Eimeria ovina; E. faurei; E. nina-kohl-yakimovae; E. parva; E. intricata; E. ahsata; Ostertagia ostertagi; Spiculopteragia boehmi; Oesophagostomum venulosum; Skrjabinema ovis; Dictyocaulus filaria; Protostrongylus rufescens; Muellerius capillaris; Cystocaulus ocreatus; Neoststrongylus linearis; Moniezia expansa; M. benedeni; M. denticulata; Dicrocoelium dendriticum)

Austria

Hinaidy, H. K.; Prosl, H.; and Supperer, R., 1979, Wien. Tierarztl. Monatsschr., v. 66 (3), 77-82

gastrointestinal helminths, cattle, comparison with parasite fauna of other domestic and wild ruminants: Austria (Ostertagia ostertagi; O. leptospicularis; Skrjabinagia lyrata; S. kolchida; Spiculopteragia boehmi; Rinadia mathevossiani; Trichostrongylus axei; T. longispicularis; Haemonchus contortus; Cooperia oncophora; C. zurnabada; C. punctata; Nematodirus helvetianus; Bunostomum phlebotomum; Oesophagostomum radiatum; O. venulosum; Chabertia ovina; Trichuris discolor; Moniezia benedeni)

Autoimmunity. See Immunity, Autoimmunity.

Autoinfection. See Disease transmission, Autoinfection.

Autoradiography. [See also Radiation; Radioisotopes]

Autoradiography

Kassim, O. O.; and Richards, C. S., 1979, J. Invert. Path., v. 55 (3), 585-586

Schistosoma mansoni, radioisotope labeling for differentiating between strains in individual Biomphalaria glabrata snails

Autoradiography

Reynolds, G. T., 1968, Rev. Scient. Instrum., v. 39 (3), 298-302

Schistosoma mansoni, scintillomicroscope for radioactive tracer detection compared with conventional autoradiographic techniques, application of scintillomicroscope to ¹⁴C detection in parasites

Autoradiography

Skromne-Kadlubik, G.; et al., 1978, Medicina, Mexico (1228), an. 58, v. 58, 1-4

Onchocerca volvulus, rabbits, possible diagnosis and treatment of onchocercoma using I¹³¹-labelled antibodies

Axenic culture. See Culture.

Azerbaijan. See Russian, Azerbaijan SSR.

Bacteria

- Aitken, M. M.; et al., 1978, J. Comp. Path., v. 88 (1), 75-84
Fasciola hepatica increased susceptibility of cattle to lethal effects of *Salmonella dublin* and predisposed to development of carrier state

Bacteria

- Aitken, M. M.; et al., 1979, Research Vet. Sc., v. 27 (5), 506-512
Fasciola hepatica-infected and non-infected cattle, immune responses to *Salmonella dublin*, *Brucella abortus*, and ovalbumin

Bacteria

- Bagadi, H. O.; and Sewell, M. M. H., 1973, Research Vet. Sc., v. 15 (1), 49-53
Fasciola hepatica and *Clostridium novyi* (oedematiens) type B causing infectious necrotic hepatitis, sheep, epidemiological survey: southern Scotland

Bacteria

- Bagadi, H. O.; and Sewell, M. M. H., 1973, Research Vet. Sc., v. 15 (1), 53-61
Fasciola hepatica and *Clostridium novyi* (oedematiens) type B causing experimentally induced infectious necrotic hepatitis in guinea-pigs, rabbits, and for first time in sheep

Bacteria

- Balauca, N., 1978, Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur, v. 13, 127-141
 experimental reproduction of necrotic enteritis in chicks with mixed infections of *Clostridium perfringens* and coccidia

Bacteria

- Blancou, J.; Vassiliades, G.; and Mattei, X., 1978, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 31 (1), 27-31
Thelazia rhodesi, isolation of numerous bacteria in digestive tract

Bacteria

- Bogush, A. A.; and Urbanovich, N. A., 1977, Vet. Nauka--Proizvod., Trudy, Minsk, v. 15, 117-121
 [Sarcocystis], increased prevalence of bacteria in meat and organs of infected swine and cattle, public health implications

Bacteria

- Bustillo, A. E., 1976, Rev. Colomb. Entom., v. 2 (4), 139-144
Neoplectana carpocapsae, pathogenic to larvae and prepupae of *Oxydia trychiata* under simulated field conditions, technique for mass production of nematode using prepupae of *Galleria mellonella*, isolation from nematode of mutualistic bacteria *Achromobacter nematophilus*

Bacteria

- Chang, G. N., 1977, J. Chinese Soc. Vet. Sc., v. 3 (2), 27-30
Ascaris lumbricoides, embryonated eggs, isolation of *Escherichia coli*

Bacteria

- Das, S. R.; Das, P.; and Rai, G. P., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (3), 241-244
Entamoeba histolytica, axenically grown parasites, revival of pathogenicity for the rat, prolonged amoeba-bacteria association is required, simple addition of fresh bacteria to amoeba inoculum is not enough

Bacteria

- Das, S. R.; and Ghoshal, S., 1979, Current Sc., Bangalore, v. 48 (2), 69-70 [Letter]
Entamoeba histolytica, axenically grown, amoebicidal activity of metronidazole reduced in vitro by intestinal bacteria

Bacteria

- Ducklow, H. W.; et al., 1979, Applied and Environment. Microbiol., v. 38 (4), 667-672
 bacterial flora of field and laboratory populations of schistosome vector *Biomphalaria glabrata*, relevance for biocontrol: Puerto Rico; St. Lucia; Guadeloupe

Bacteria

- Dykstra, D. D.; and Reid, W. M., 1978, Poultry Science, v. 57 (1), 85-89
Eimeria tenella in conventional, bacteria-free, and monofloral (*Escherichia coli* and *Bacteroides* sp.) chicks (exper.), comparison of cecal lesions, weight gain, clinical signs, and mortality

Bacteria

- Dykstra, D. D.; and Reid, W. M., 1978, Poultry Science, v. 57 (2), 398-402
Eimeria tenella, gnotobiotic chickens, monensin suppressed bacterial numbers in absence of *Eimeria*, prevented increase in bacterial numbers in presence of *Eimeria*

Bacteria

- Dyner, E., 1978, Acta Parasitol. Polon., v. 25 (11-20), 97-108
Trichomonas vaginalis, *Bodo urinarius*, growth in presence of various bacteria and fungi, possible implications

Bacteria

- El-Hawey, A. M.; Hablas, R.; and El-Maghraby, M. A., 1978, Egypt. J. Bilharz., v. 4 (1), 1977, 97-105
S[chistosoma] mansoni, humans, pathology, presence of bacteria, possible role in pathogenesis of parasitic infection

Bacteria

- Esch, G.; et al., 1976, Tr. Am. Micr. Soc., v. 95 (4), Finley Mem. Issue, pt. 2, 687-693
Epistylis-Aeromonas complex, centrarchid fish, incidence, spatial distribution of lesions, host size class (age), body condition, seasonal periodicity, influence of thermal effluent on disease: Par Pond reservoir, Savannah River Plant near Aiken, South Carolina

Bacteria

- Fadzil, M., 1977, Vet.-Med. Nachr. (1), 44-52
Stephanofilaria kaeli, cattle, incidence in different ecological areas, role of *Staphylococcus aureus* and *S. albus* in setting up the inflammation; neguvon: malaysischen Halbinsel

Bacteria

- Fadzil, M., 1977, Vet. Med. Rev. (1), 44-52
Stephanofilaria kaeli in cattle, prevalence, temperature and humidity in endemic areas favor vectors, *Staphylococcus* play important role in setting up inflammation, treatment with nequvon gave excellent results: west coast of Peninsular Malaysia

Bacteria

- C., 1979, Parasite Immunol., v. 1 (4), 289-294
Schistosoma mansoni, mice in granulomatous stage of infection, increased hepatotoxicity of bacterial lipopolysaccharide

Bacteria

- Ferreira, J. M.; Bassoi, O. N.; and Shiroma, M., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (6), 368-379
Schistosoma mansoni-infected humans also infected with typhoid fever, atypical aspects of bacterial infection, niridazole at times also cured typhoid, schistosomes may act as multiplication foci of bacteria within host

Bacteria

- Fuxa, J. R., 1979, J. Invert. Path., v. 33 (3), 316-323
Vairimorpha necatrix, interactions with bacterium, virus, and fungus in *Heliothis zea* (exper.)

Bacteria

- Krylov, M. V.; Kostenko, L. A.; and Snigirevskaya, E. S., 1973, Parazitologiya, Leningrad, v. 7 (6), 481-484
Nuttallia musculi, trophozoites, merozoites, fine structure; bacteria-like bodies often found in cytoplasm

Bacteria

- Lantier, F.; et al., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (10), 757-760
Heligmosomoides polygyrus-infected mice, modifications in sensitivity to *Salmonella abortus ovis* challenge (more frequently infected after oral inoculation, lower fatality rate after sub-cutaneous inoculation)

Bacteria

- Laubach, H. E.; Jordan, H. E.; and Kocan, A. A., 1979, Proc. Oklahoma Acad. Sc., v. 59, 23-26
Nippostrongylus brasiliensis, *Strongyloides ratti*, effect of sodium hypochlorite on bacterial flora of infective larvae in vitro, results demonstrate vector capability of nematodes for pathogenic bacteria

Bacteria

- Laughlin, L. W.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 916-918
Schistosoma haematobium, human, prevalence of bacteriuria: Egypt

Bacteria

- Lee, Y. C.; and Liu, C. C., 1977, J. Chinese Soc. Vet. Sc., v. 3 (2), 37-40
Ascaris suum, entry of 4 species of bacteria into parasite egg before shell formation

Bacteria

- Mackenzie, C.; and Walker, M. H., 1979, Cell and Tissue Research, v. 202 (1), 33-39
Gregarina garnhami, bacteria-like structures in endoplasm, light and electron microscopy

Bacteria

- Milstead, J. E., 1979, J. Invert. Path., v. 33 (3), 324-327
Heterorhabditis bacteriophora as vector for introducing its associated bacterium into hemocoel of *Galleria mellonella* larvae

Bacteria

- Mobedi, I.; Vand-Youssefi, J.; and Esterabadi, A. H., 1978, Arch. Inst. Razi (30), 117-128
Actinomyces bovis as possible cause for degeneration and calcification of *Cysticercus bovis* and hydatid cyst in host tissue

Bacteria

- Nemanic, P. C.; et al., 1979, J. Infect. Dis., v. 140 (2), 222-228
Giardia muris, occurrence of endosymbiotic microbes; *G. muris*, *G. lamblia*, organelle distribution

Bacteria

- Nielsen, K.; et al., 1978, Experientia, v. 34 (1), 118-119
Trypanosoma lewisi-infected or de complemented rats, increased susceptibility to *Salmonella typhimurium* infection; de complemented rats subsequently infected with *T. lewisi* developed higher blood parasitemia than did normal *T. lewisi*-infected rats

Bacteria

- Norman, J. O.; and Younger, R. L., 1979, J. Med. Entom., v. 16 (1), 43-47
Hypoderma larvae from cattle treated with juvenile hormone analogues, microbial flora, relationships with inflammatory reactions in dorsal subcutis of cattle

Bacteria

- Onet, E.; Constantinescu, V.; and Sandu, G., 1978, Rev. Med. Vet., Toulouse, v. 129 (6), 933-937
Fasciola hepatica, cattle (biliary canal), isolation of 3 mycobacteria strains: Cluj abattoir, Rumania

Bacteria

- Pike, E. H., [1977], Rev. Biol. Trop., v. 24 (2), 1976, 251-259
Trichuris muris, changes in the bacterial cecal flora of infected mice, most significantly reduced bacterial counts were observed during the period of parasite self-cure

Bacteria

- Pilley, B. M., 1976, J. Invert. Path., v. 28 (2), 177-183
Vairimorpha necatrix [n. comb.] in *Spodoptera exempta*, pathogenicity (occurrence of bacteriosis and cytoplasmic polyhedrosis virus), life cycle (disporoblastic life cycle at 25°C and both disporoblastic and octosporoblastic life cycle at 20°C), implications of polymorphism in relation to classification of Microsporidia

Bacteria

- Podboronov, V. M.; and Grokhovskaia, I. M., 1978, Veterinariia, Moskva (7), 46-48
Ornithodoros papillipes, bacterial infections, bacteria destroyed by protective action of bactericidal substance causing lysis

Bacteria

- Poinar, G. O., jr., 1978, *Nematologica*, v. 24 (1), 105-114
Neoplectana glaseri, emended description, generation polymorphism (larger first generation, smaller second generation); symbiotic bacterium in nematode released into insect haemocoel, probably aids in nematode nutrition and development; rediscovery of xenic population indicates that nematode species is native to North America not introduced with Japanese beetle; possible use for pest control renewed

Bacteria

- Przyjalkowski, Z., 1970, *Acta Parasitol. Polon.*, v. 18 (1-12), 115-120
Trichinella spiralis, inhibition of development in mouse intestine of larvae previously exposed in vitro to monocultures of intestinal bacteria

Bacteria

- Przyjalkowski, Z., 1974, *Acta Parasitol. Polon.*, v. 22 (22-34), 345-349
Aspicularis tetraptera, development and establishment in gnotobiotic mice contaminated with *Escherichia coli* vs. conventional mice (both exper.)

Bacteria

- Przyjalkowski, Z., 1977, *Acta Parasitol. Polon.*, v. 25 (1-10), 63-68
Hymenolepis nana in germfree vs. conventional mice, establishment, growth, and rate of expulsion, results suggest that conditions for cestode growth in germfree mice were less favorable than in conventional mice

Bacteria

- Przyjalkowski, Z., 1978, *Acta Parasitol. Polon.*, v. 25 (11-20), 169-178
Trichinella spiralis in germfree vs. conventional mice, intensity of infection (greater in conventional mice), elimination of adult worms (earlier and more complete in germfree mice), changes in packed cell volume and differential leukocyte counts (higher eosinophilia in germfree mice), concluded that intestinal microflora plays important role in establishment and elimination of intestinal trichinellae

Bacteria

- Przyjalkowski, Z., 1978, *Acta Parasitol. Polon.*, v. 25 (21-35), 287-292
Trichinella spiralis in conventional mice and in germfree mice also infected with *Staphylococcus epidermidis* (alone or associated with *Escherichia coli*), numbers of established intestinal trichinellae, time of their expulsion, packed cell volumes, and white blood cell counts, results indicate that size of infective dose, age of mice, and type of intestinal flora play role in course of experimental trichinosis

Bacteria

- Przyjalkowski, Z., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (5), 331-336
Trichinella pseudospiralis, conventional and germfree mice, effect of intestinal flora on course of infection and haematological changes

Bacteria

- Przyjalkowski, Z.; and Gorecka, T., 1976, *Acta Parasitol. Polon.*, v. 24 (1-10), 57-67
Angiostrongylus cantonensis in germfree and conventional mice, establishment and migration, packed cell volume and differential white blood cell counts, in neither hosts did parasites reach maturity

Bacteria

- Przyjalkowski, Z.; and Klekowski, R., 1974, *Acta Parasitol. Polon.*, v. 22 (35-44), 451-457
Ascaris suum, *Ascaridia galli*, ovostatic action of intestinal bacteria on egg development resulting from bacterial oxygen consumption, practical applications in parasitology

Bacteria

- Przyjalkowski, Z.; and Malinowska, A., 1977, *Acta Parasitol. Polon.*, v. 25 (1-10), 69-77
Trichinella spiralis-infected germfree vs. conventional mice, some metabolites and enzymes of carbohydrate metabolism in liver and small intestine

Bacteria

- Przyjalkowski, Z.; and Malinowska, A., 1977, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 25 (2), 95-100
Trichinella spiralis, conventional and bi-associated (with *Staphylococcus epidermidis* and *Escherichia coli*) mice, carbohydrate metabolism in livers and intestines, metabolite levels, enzyme activities

Bacteria

- Przyjalkowski, Z.; and Warton, A., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (2), 99-101
Trichinella spiralis, conventional and germfree mice, pathology, small intestine epithelium, scanning electron microscopy

Bacteria

- Pugh, R. N. H.; and Gilles, H. M., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 349-354
Schistosoma haematobium, subjects living in Malumfashi endemic diseases research area, no association found between bacteriuria and parasite infections, probably reflects low intensity of parasite infection: northern Nigeria

Bacteria

- Rai, G. P.; Das, S. R.; and Garg, N. K., 1978, *Proc. Indian Acad. Sc., Sect. B, Exper. Biol.*, v. 87 (7), 181-187
Entamoeba histolytica, axenically grown, factors in bacterial lipids supporting parasite growth

Bacteria

- Rocha, H.; et al., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (6), 399-404
Schistosoma mansoni, growth of *Salmonella typhi* in parasitized mice

Bacteria

- Rocha, H.; McCrory, M.; and de Oliveira, M. M. G., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (5), 328-332
Schistosoma mansoni-infected and uninfected mice injected with *Salmonella typhimurium*, phagocytic function of reticulo-endothelial cells compared

Bacteria

- Rodriguez, O. N.; et al., 1975, *Folia Vet.*, v. 19 (1-2), 233-242
isolation of bacteria resembling *Rickettsia* from *Haemobartonella bovis* cultures

Bacteria

- Rostkowska, J., 1970, *Acta Parasitol. Polon.*, v. 18 (27-41), 377-392
Balantidium coli, effect of various bacteria on propagation in vitro, on erythrophagocytic capability of balantidia, and on susceptibility of balantidia to atebirin, entobex, mexaform, and protargol; *Trichomonas hominis*, *Chilomastix mesnili*, and *Dientamoeba fragilis* found to be without effect; effect of balantidia on bacteria

Bacteria

- Stepien, H., 1977, *Przegl. Epidemiol.*, v. 31 (3), 299-303
Enterobius vermicularis, *Trichuris trichiura*, *Ascaris lumbricoides*, children, enteric parasites modify quantitatively and qualitatively the host intestinal flora

Bacteria

- Tomkins, A. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 33-36
Giardia lamblia, intestinal colonization by enterobacteria as possible important contributing factor in the development of malabsorption in humans with giardiasis

Bacteria

- Toshkov, A.; et al., 1978, *Ztschr. Parasitenk.*, v. 55 (1), 49-54
Trichinella spiralis in rats (exper.) infected 20 days later with *Erysipelothrix rhusiopathiae*, clinical and pathoanatomic changes in joints, immunological features

Bacteria

- Turner, J. T.; Postek, M. T.; and Collard, S. B., 1979, *Tr. Am. Micr. Soc.*, v. 98 (1), 136-138
Epistylis sp. on *Acartia tonsa*, bacterial colonization near ciliate-produced lesions in exoskeleton suggests that bacteria may utilize dissolved copepod body contents: upper Escambia Bay, Florida

Bacteria

- Weinman, D.; and Cheong, W. H., 1978, *J. Protozool.*, v. 25 (2), 167-169
Herpetomonas sp. infections in laboratory-reared *Aedes aegypti* and *A. albopictus* (Malphighian tubules of both), 30 to 40% of the flagellates contained intracytoplasmic rod-shaped structures strongly resembling bacteria: Institute for Medical Research, Kuala Lumpur, Malaysia

Bacteria

- Yvore, P.; et al., 1978, *Ann. Recherches Vet.*, v. 9 (3), 531-539
Eimeria adenoeides, turkeys (exper.), single and multiple infections, pathology, suggested role of bacteria in pathogenic potential

Baltic Sea. See Seas, Baltic Sea.

Bather's itch. See Dermatitis, Trematoda.

Behavior. [See also Host perception by parasites; Taxis]

Behavior, Host

- Anderson, R. M.; Whitfield, P. J.; and Dobson, A. P., 1978, *Parasitology*, v. 77 (2), 189-200
Transversotrema patialense infections in *Brachydanio rerio*, overdispersion in distribution of successful infections/host can be generated within laboratory infection arenas, degree of over-dispersion or aggregation of parasites within host population increases as both infective-stage density and time of exposure to infection increases, stochastic simulation studies demonstrate that heterogeneity in host susceptibility to infection is probable generative cause of such patterns, variability in host susceptibility is most probably generated by differences in behavior

Behavior, Host

- Bethel, W. M.; and Holmes, J. C., 1977, *Canad. J. Zool.*, v. 55 (1), 110-115
larval *acanthocephalans* induce behavioral alterations in infected amphipods which render them more vulnerable to predation by definitive hosts

Behavior, Host

- Bishop, R. K.; and Cannon, L. R. G., 1979, *J. Fish Dis.*, v. 2 (2), 131-144
Sacculina granifera, morbid behavioral changes in infected *Portunus pelagicus*; concluded that parasite secretes hormonal mimic which induces ovigerous behavior which maximizes survival of parasite population

Behavior, Host

- Camp, J. W.; and Huizinga, H. W., 1979, *J. Parasitol.*, v. 65 (4), 667-669
Acanthocephalus dirus-infected *Asellus intermedius*, altered color, behavior, and susceptibility to predation by *Semotilus atromaculatus*

Behavior, Host

- Dailey, M. D.; and Walker, W. A., 1978, *J. Parasitol.*, v. 64 (4), 593-596
60 stranded and 31 control cetaceans, parasites recovered, associated pathology, role of parasites as possible contributing factor in stranding behavior: southern California

Behavior, Host

- Dunn, F. L., 1979, *Bull. World Health Organ.*, v. 57 (4), 499-512
behavioral aspects of control of parasitic diseases, review

Behavior, Host

- Fleming, W. J.; and Caslick, J. W., 1978, *Cornell Vet.*, v. 68 (3), 391-395
abnormal behavior suggestive of rabies in *Marmota monax* diagnosed as cerebrospinal nematodosis, baermannization of brain tissue suggested for differential diagnosis: New York

Behavior, Host

- Harris, S.; and Thompson, G. B., 1978, *J. Zool.*, London, v. 186 (1), 83-93
Ixodes hexagonus and *I. canisuga* populations on *Vulpes vulpes*, distribution within host population; *I. hexagonus*, seasonal dynamics, occurrence in relation to host sex, age, and behavior, effect on host: suburban London

Behavior, Host

- Jackson, J. A.; and Nickol, B. B., 1979, J. Parasitol., v. 65 (1), 167-169
Mediorhynchus centurorum, host specificity for *Melanerpes carolinus* is thought to result from differences in nesting sites, nest sanitation, foraging behavior, and food items among woodpeckers: Louisiana

Behavior, Host

- Keymer, A. E.; and Anderson, R. M., 1979, Parasitology, v. 79 (2), 195-207
Hymenolepis diminuta, dynamics of transmission by *Tribolium confusum*: age-dependent infectivity of eggs, influence of infective-stage density on rate of parasite establishment, density-dependent constraints, limitations on rate of acquisition of infection imposed by host feeding behavior, dynamics of ingestion of eggs by host, influence of spatial distribution of infective stages on infection

Behavior, Host

- Koudstaal, D.; Kemp, D. H.; and Kerr, J. D., 1978, Parasitology, v. 76 (3), 379-386
Boophilus microplus, rejection of larvae from British breed cattle with different levels of resistance, relationship to grooming response

Behavior, Host

- Kovacik, C. F., 1978, Social Sc. and Med., v. 12 (2D), 131-136
 malaria, humans, settlement growth and recreation aspects of lifestyles in colonial and antebellum South Carolina as indications of cultural adjustments to health hazard

Behavior, Host

- Londono M., I., 1975, Rev. Colomb. Entom., v. 1 (2-3), 27-37
Dipetalonema viteae, larval migration and distribution in *Ornithodoros tartakowskyi*, elimination of nematode larvae in tick coxal fluid may prevent hyperinfection, cannibalism transmits nematodes among ticks

Behavior, Host

- Macdonald, S.; and Jones, A., 1978, J. Helminth., v. 52 (1), 23-28
Diplozoon homion gracile from *Barbus meridionalis*, egg-laying and hatching rhythms, probably synchronized to host behavior so as to increase chances of successful invasion by larvae

Behavior, Host

- Mahajan, C. L.; et al., 1979, J. Fish Dis., v. 2 (6), 519-528
Isoparorchis hypselobagri-infected *Channa punctatus*, morphological, behavioural, biochemical, and haematological changes, possible human health hazard: reservoir (Khookas bundh) about 20 km north of Jaipur

Behavior, Host

- Molyneux D. H.; Lavin, D. R.; and Elce, B. A., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 287-290
Trypanosoma congolense-infected *Glossina morsitans*, study by stereoscan electron micrographs suggests close association between salivarian trypanosomes and host mechanoreceptors, possible higher probing rate in infected flies

Behavior, Host

- Nathan, M. B., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 338-340
Mansonella ozzardi in humans, comparison of microfilaria densities in blood and skin snips from 3 areas of the body; relative importance of skin and blood dwelling tendencies of parasite in relation to vector uptake discussed: Trinidad

Behavior, Host

- Norval, R. A. I., 1978, J. Parasitol., v. 64 (5), 910-917
Amblyomma hebraeum, repeated feeding on rabbits and sheep, tick yield, engorged weight, and engorgement period, no acquisition of resistance by host, seasonal fluctuations in engorged weights appear to be due to changes in host physiology as result of low temperature acclimatization, tick yield is determined by amount of host grooming, feeding periods of larvae and nymphs are dependent on host skin temperature

Behavior, Host

- Okiwelu, S. N., 1979, Ann. Trop. Med. and Parasitol., v. 73 (1), 73-77
 observations on *Glossina m. mortisans* at a tsetse disinfection picket during rainy season (age composition, trypanosome infection rate, pregnancy rate, sex ratio, and settling behavior): Republic of Zambia

Behavior, Host

- Palmieri, J. R.; and James, H. A., 1976, Great Basin Nat., v. 36 (1), 97-100
Apatemon gracilis in *Helobdella stagnalis*, *Placobdella parasitica*, and *Erpobdella punctata*, effects of leech behavior on cercarial penetration and localization

Behavior, Host

- Phillips, W. J.; and Cannon, L. R. G., 1978, J. Fish Dis., v. 1 (2), 137-149
Sacculina granifera infections of *Portunus pelagicus*, prevalence, host age and sex, seasonal distribution, influence of parasite upon host: morphological and behavioural modifications, inhibited moulting, male sterility: Moreton Bay, Queensland

Behavior, Host

- Rondelaud, D., 1978, Ann. Parasitol., v. 53 (1), 63-74
Fasciola hepatica-infected or non-infected *Lymnaea truncatula*, disturbance of daily rhythm of behavior in presence of predators

Behavior, Host

- Roundy, R. W., 1978, Social Sc. and Med., v. 12 (2D), 121-130
 model for combining human behavior and disease ecology to assess disease hazard in a community: rural Ethiopia

Behavior, Host

- Schofield, C. J., 1979, Bull. Entom. Research, v. 69 (3), 363-379
 Triatominae, behavior, review

Behavior, Host

- Sogandares-Bernal, F.; Hietala, H. J.; and Gunst, R. F., 1979, J. Parasitol., v. 65 (4), 616-623
Ornithodiplostomum ptychocheilus infection not found to affect stamina of *Richardsonius balteatus*, evolutionary implications; multivariate contingency table analysis of data

Behavior, Host

- Sosnina, E. F.; and Davydov, G. S., 1975, *Parazitologiya*, Leningrad, v. 9 (2), 183-189
Neohaematopinus palaeartus infestation of *Marmota caudata* in relation to geographic regions and vertical zones, season, host activity period (hibernation, reproduction, etc.), host age and sex, age and sex structure of louse populations: Tadzhikistan

Behavior, Host

- Thomas, J. D., 1977, *Publicaciones Espec.* (4), *Inst. Biol., Univ. Nac. Autonom. Mexico*, 531-542
 sociobiology of *Biomphalaria glabrata* (behavior, growth, survival, and natality rates)

Behavior, Host

- Thomas, J. D.; and Assefa, B., 1979, *Comp. Biochem. and Physiol.*, v. 63C (1), 99-108
Biomphalaria glabrata juveniles, behavioral responses to amino acids, possible practical application in control of snail hosts of schistosomiasis

Behavior, Host

- Whitlock, J. H., 1978, *Cornell Vet.*, v. 68 (2), 250-251
 trichostrongyloids, construction of a permanent campground for sheep in attempt to control parasites based on knowledge of sheep behavior

Behavior, Parasite

- Anderson, J. R., 1974, *J. Med. Entom.*, v. 11 (1), 7-19
 arthropods of medical and veterinary importance, mate seeking and mating sites, review

Behavior, Parasite

- Beer, S. A., 1977, *Zool. Zhurnal*, v. 56 (10), 1561-1563
Opisthorchis felinus cercariae, movement in water

Behavior, Parasite

- Belozerov, V. N.; and Luzev, V. V., 1974, *Parazitologiya*, Leningrad, v. 8 (6), 515-523
Haemaphysalis longicornis, effect of photoperiod and temperature on behavior and development of larvae and nymphs

Behavior, Parasite

- Benton, A. H.; Surman, M.; and Krinsky, W. L., 1979, *J. Parasitol.*, v. 65 (4), 671-672
Ceratophyllus niger, *Opisodasys pseudarc-tomys*, evidence that larval fleas feed by ingestion of liquid (whether blood or other body fluids) by sucking action and that they are predatory (attacking and killing even others of their own kind)

Behavior, Parasite

- Bone, L. W.; et al., 1979, *J. Exper. Zool.*, v. 208 (3), 311-318
Nippostrongylus brasiliensis, aggregation and sex pheromones, chromatographic fractionation

Behavior, Parasite

- Camin, J. H.; and Drenner, R. W., 1978, *J. Parasitol.*, v. 64 (5), 905-909
Haemaphysalis leporispalustris, climbing behavior and host-finding of larval ticks, strato-orientation restricts tick's host spectrum to rabbits and ground-dwelling or feeding birds and has implications for tick dispersal

Behavior, Parasite

- Casto, S. D., 1974, *J. Med. Entom.*, v. 11 (1), 113-114
Syringophiloidus minor, laboratory evidence of nocturnal dispersal rhythm

Behavior, Parasite

- Cooper, C. L.; Crites, J. L.; and Sprinkle-Fastkie, D. J., 1978, *J. Parasitol.*, v. 64 (1), 102-107
Eustrongylides tubifex, third and fourth stage larvae, prevalence and intensity in various age/size classes of fish hosts with possible factors responsible for results, site selection, emergence behavior in relation to temperature as possible adaptation to facilitate rapid infection of definitive warm-blooded host upon ingestion of infected fish

Behavior, Parasite

- Croll, N. A.; and Ma, K., 1978, *Internat. J. Parasitol.*, v. 8 (4), 289-295
Nippostrongylus brasiliensis, factors which determine emergence from pulmonary circulation into alveoli and bronchioles of rat's lung, includes some brief observations on *Ancylostoma tubaeforme*

Behavior, Parasite

- Crum, G. E.; Knapp, F. W.; and White, G. M., 1974, *J. Med. Entom.*, v. 11 (1), 88-94
Ctenocephalides felis and *Xenopsylla cheopis*, response to electromagnetic radiation of 300-700 nm (intensity, light versus dark, light comparison, and color vision tests), *C. felis* is photopositive, *X. cheopis* is photonegative

Behavior, Parasite

- Crystal, M. M.; and Guillot, F. S., 1978, *Ann. Entom. Soc. Am.*, v. 71 (2), 243-246
Cochliomyia hominivorax, field-collected and laboratory reared females, correlation of changes in flight behavior of aging female with changes in ovarian development

Behavior, Parasite

- Garben, A. F. M.; van Bronswijk, J. E. M. H.; and van Ebbenhorst Tengbergen, T., 1978, *Netherlands J. Zool.*, v. 28 (2), 193-205
Neotrombicula autumnalis, behaviour of unfed and feeding larvae (stability, movements, and sensory physiology of mite clusters; host finding and feeding), localization on host: the Netherlands

Behavior, Parasite

- Gilbert, B.; Pellegrino, J.; and dos Santos Filho, D., 1971, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 4 (4-5), 315-316
Schistosoma mansoni, laboratory studies using *Enterolobium hexane* extract as a stimulant for the first stages of cercarial penetration, cercariae burrowed into thin layer of extract without separation of head from tail during penetration

Behavior, Parasite

- Hafez, M.; Hilali, M.; and Fouda, M., 1979, *Ztschr. Ang. Entom.*, v. 87 (3), 527-535
Hippobosca equina, ecological studies: host preference, seasonal abundance, adult habits, effect of host sex and colour on attraction of flies, mating behaviour, distribution on host body, sex ratio, breeding season: El-Aziziya village, El-Faiyum governate, Egypt

Behavior, Parasite

- Healy, J. A., 1979, *Genetica*, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycero-phosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Behavior, Parasite

- Hopkins, C. A.; and Allen, L. M., 1979, *Parasitology*, v. 79 (3), 401-409
Hymenolepis diminuta in rats, effect of removing strobila on position of scolex in host intestine, effect on worm growth of operating on host

Behavior, Parasite

- Howell, F. G., 1975, *J. Med. Entom.*, v. 11 (6), 715-723
Argas cooleyi unfed adults, behavioral changes induced by host odor, breath (CO_2), and body temperature in relation to host-finding activities and provoking a feeding response

Behavior, Parasite

- James, C.; and Prah, S. K., 1978, *J. Helminth.*, v. 52 (3), 221-226
Schistosoma mansoni, *S. haematobium*, penetration efficiency and selective capacity of miracidia based on infection rates produced in *Bulinus pfeifferi* and *B. globosus* respectively, scanning capacity also compared in increasing volumes of water, over increasing horizontal distances, and in running water of different flow rates, effect of miracidial density, epidemiological implications

Behavior, Parasite

- Johannessen, A., 1978, *Sarsia*, v. 63 (3), 169-176
Lepeophtheirus salmonis on *Salmo salar*, morphology of first and second nauplius, behaviour of free-living larval stages, egg-bearing period and developmental time are inversely related to temperature

Behavior, Parasite

- Kozlov, D. P., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 22, 68-72
Trichinella spiralis, mice, orientation of male and female larvae into pairs in small intestine, pairs more frequent in lower section than in upper section

Behavior, Parasite

- Kozlov, D. P., 1972, *Parazitologiya*, Leningrad, v. 6 (4), 360-363
Trichinella spiralis, male is able to fertilize several females, females may copulate several times in host's intestine

Behavior, Parasite

- Krafsur, E. S., 1978, *Proc. Entom. Soc. Wash.*, v. 80 (2), 164-170
Cochliomyia hominivorax, aggregations of male flies, efficiency of sterile male release method will be enhanced by maximizing the chances of putting sterile screwworms into actual or potential breeding sites

Behavior, Parasite

- Kulin, E. T.; et al., 1977, *Izvest. Akad. Nauk SSSR, s. Biol.* (3), 357-362
Hyalomma asiaticum, *Cimex lectularis*, locomotor responses under influence of electromagnetic fields of differing frequencies and intensities

Behavior, Parasite

- Laurence, B. R., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 603-604 [Letter]
Brugia, *Wuchereria*, differences in behaviour of infective larvae in mosquito vectors may be of epidemiological significance in disease transmission

Behavior, Parasite

- Lengy, J.; and Gold, D., 1978, *Israel J. Zool.*, v. 27 (4), 209-220
Cercaria levantina 14, 15, and 16, descriptions, swimming behavior, development, encystation attempts with *C. levantina* 16

Behavior, Parasite

- Levinson, H. Z.; et al., 1974, *J. Insect Physiol.*, v. 20 (7), 1231-1248
Cimex lectularius, structure of sensilla, olfactory perception, and behavior in response to its alarm pheromone

Behavior, Parasite

- Mason, P. R.; and Fripp, P. J., 1977, *Ztschr. Parasitenk.*, v. 53 (3), 287-295
Schistosoma mansoni miracidia, effect of sugars, fatty acids, amino acids, and snail excretion products on activity, some effects concentration dependent and pH dependent; possible role for chemo-klinokinetic behavior patterns in miracidial host location

Behavior, Parasite

- Miller, P. L., 1977, *J. Insect. Physiol.*, v. 23 (7), 855-860
Crataerina pallida, haltere activity and possible functions in this flightless hippoboscid fly, very brief observations on *Melophagus ovinus* (halteres absent), *Hippobosca equina*, and an apterous African nycteribiid

Behavior, Parasite

- Mitchell, J. B.; and Mason, A. R., 1978, *Internat. J. Parasitol.*, v. 8 (3), 193-196
Gorgoderina vitelliloba, escape of cercarial body from its anterior tail chamber

Behavior, Parasite

- Nathan, M. B., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 338-340
Mansonella ozzardi in humans, comparison of microfilaria densities in blood and skin snips from 3 areas of the body; relative importance of skin and blood dwelling tendencies of parasite in relation to vector uptake discussed: Trinidad

Behavior, Parasite

- Nilsson, A.; and Lundqvist, L., 1978, *Oikos*, v. 31 (3), 313-322
Ixodes ricinus larvae, overdispersed distribution on small mammal species in field during spring and autumn, host sex, feeding success on different host species under laboratory conditions, orientation, movements, and spatial frequency distribution on host body: Kullaberg, southern Sweden

Behavior, Parasite

- Okulova, N. M., 1978, *Ekologiya, Sverdlovsk* (2), 44-48
ixodid ticks, vertical and horizontal movements in forest conditions, dependent upon air temperature and humidity

Behavior, Parasite

- Patrick, C. D.; and Hair, J. A., 1979, *Ann. Entom. Soc. Am.*, v. 72 (2), 308-312
Amblyomma americanum, oviposition behavior and larval longevity in 4 different habitats, preoviposition time and egg incubation temperature dependent

Behavior, Parasite

- Pellegrino, J.; and Valle, C., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (4), 179-181
Schistosoma mansoni, mice infected by tail emersion, relationship between vertical distribution of cercariae and worm burden after exposure, infection is influenced by tendency of cercariae to concentrate near water surface (negative geotropism)

Behavior, Parasite

- Powlesland, R. G., 1978, *N. Zealand J. Zool.*, v. 5 (2), 395-399
Ornithonyssus bursa, behavior of mite in *Sturnus vulgaris* nest boxes during breeding season, cycle of infestation of starling broods, mites' reaction to development and fledging of nestlings: New Zealand

Behavior, Parasite

- Prah, S. K.; and James, C., 1978, *J. Helminth.*, v. 52 (2), 115-120
Schistosoma mansoni miracidia are positively phototactic, sensitive to small changes in light intensities, and indifferent to gravity; *S. haematobium* miracidia are negatively phototactic, unable to distinguish low light intensities from darkness, and positively geotactic; both species could successfully find and infect snails to depth of 2 meters of water

Behavior, Parasite

- Prechel, D. P.; and Nollen, P. M., 1979, *J. Parasitol.*, v. 65 (3), 446-450
Megalodiscus temperatus, effects of miracidial aging and dilution of snail-conditioned water on responses of miracidia

Behavior, Parasite

- Prior, D. J.; and Uglem, G. L., 1979, *J. Exper. Biol.*, v. 83, 239-247
Proterometra macrostoma cercariae, behavioral and physiological aspects of swimming

Behavior, Parasite

- Rechav, Y.; et al., 1977, *J. Med. Entom.*, v. 14 (1), 71-78
Amblyomma hebraeum, calves, rabbits, evidence for existence of an assembly pheromone(s), behavior of adult male and female ticks in response to fed males or their extracts

Behavior, Parasite

- Rechav, Y.; et al., 1978, *Nature, London* (5678), v. 275, 310-311
Ixodes neitzi, attraction of adult ticks to twigs marked by *Oreotragus oreotragus* (klipspringer antelope), first report of tick species locating its mammalian host by detecting specific chemical compound(s) used by host as communicative marking signal thus increasing probability of survival in that particular habitat

Behavior, Parasite

- Roberts, T. M.; et al., 1978, *J. Parasitol.*, v. 64 (2), 277-282
Schistosoma mansoni, quantitative assay for testing behavioral responses of miracidia to chemicals, used to screen chemicals for miraxone-like activity and to test for inhibitors of miracidial responses to stimulants

Behavior, Parasite

- Roberts, T. M.; Ward, S.; and Chernin, E., 1979, *J. Parasitol.*, v. 65 (1), 41-49
Schistosoma mansoni, quantitation of behavioral responses of miracidia in concentration gradients of snail-conditioned water

Behavior, Parasite

- Sonenshine, D. E.; et al., 1974, *J. Med. Entom.*, v. 11 (3), 307-315
Dermacentor variabilis, *D. andersoni*, female sex pheromone, chemical and biological evidence for existence, interspecific and intergeneric sex attractant activity involving both *Dermacentor* spp. and *Rhipicephalus sanguineus*

Behavior, Parasite

- Southgate, V. R., 1978, *Ztschr. Parasitenk.*, v. 56 (2), 183-193
Schistosoma intercalatum, morphology of cercarial glands; aggregates of cercariae formed by adhesive post-acetabular gland secretions, physical factors triggering aggregation behavior and impairing invasion of final host; hybridization with *S. haematobium* and fate of hybrids among natural populations; hypotheses on cercarial aggregation behavior and natural hybridization as factors limiting distribution of *S. intercalatum*

Behavior, Parasite

- Tashkinov, N. I., 1972, *Parazitologiya, Leningrad*, v. 6 (4), 326-333
Oedemagena tarandi in reindeer of different age and sex groups, larval development, larval emergence, flight and attacking activity of imago: seasonal and daily dynamics, weather effects, other factors

Behavior, Parasite

- Ternovoi, V. I.; and Mikhailenko, V. K., 1973, *Parazitologiya, Leningrad*, v. 7 (2), 123-127
Oestrus ovis, flight distance when released near sheepfolds or on pasture: Stavropol krai

Belgium

- Cotteleer, C.; Fameree, L.; and Cordier, N., 1976, *Rev. Med. Liege*, v. 31 (4), 139-142
human intestinal parasites, incidence survey in hospital patients, including foreign born persons: Brussels, Belgium
(trichures; *Ascaris*; oxyures; *Taenia saginata*; ankylostomes; *Strongyloides*; *Hymenolepis*; *Schistosoma mansoni*; *Capillaria*; *Fasciola hepatica*; *Dipylidium caninum*; *Isospora*; *Entamoeba histolytica*)

Belgium

- Cotteleer, C.; and Fameree, L., 1978, *Schweiz. Arch. Tierh.*, v. 120 (12), 643-648
gastrointestinal parasites, sheep, goats: Belgium

Belgium

- Pecheur, M.; et al., 1979, Ann. Med. Vet., v. 123 (2), 103-108
gastrointestinal helminths in ponies slaughtered in Belgium
(*Gastrophilus* sp.; *Habronema muscae*; *Anoplocephala perfoliata*; *Trichonema* spp.; *Cylicostephanus longibursatus*; *Cylicocyclus nassatus*; *C. insigne*; *Cylicostephanus calicatus*; *Cyathostomum labratum*; *Oxyuris equi*; *Strongylus vulgaris*; *Cyathostomum coronatum*; *Cylicostephanus minutus*; *Triodontophorus serratus*; *Habronema muscae*; *Cylicostephanus goldi*; *Cylicostephanus hybridus*; *Cylicodontophorus euproctus*; *Cylicodontophorus bicoronatus*; *Cylicocyclus elongatus*; *Strongylus edentatus*; *Cyathostomum labiatum*; *Cylicocyclus brevicapsulatus*; *Triodontophorus brevicauda*; *Cyathostomum catinatum*; *Cylicostephanus poculatus*; *Triodontophorus tenuicollis*; *Anoplocephala perfoliata*; *Cylicostephanus asymmetricus*; *Parascaris equorum*; *Cylicocyclus leptostomus*; *Strongyloides westeri*; *Oxyuris equi*; *Poteriostomum imparidentatum*; *Trichostrongylus axei*; *Cylicostephanus bidentatus*; *Cylicocyclus radiatus*)

Belorussian SSR. See Russia, Belorussian SSR.

Bibliographies

- Ayala, S. C., 1978, J. Protozool., v. 25 (1), 87-100
Plasmodium from reptiles, checklist, host index, annotated bibliography

Bibliographies

- Beesley, W. N.; Eichler, W.; and Nogge, G., 1974, Ang. Parasitol., v. 15 (2), 74-84
continuation of bibliography on Hypodermatidae

Bibliographies

- Canese, A., 1978, Rev. Paraguaya Microbiol., v. 15 (1), 21-24
Chagas disease, bibliography: Paraguay

Bibliographies

- Commonwealth Institute of Helminthology, [1975 ?], Annot. Bibliogr. (23), Commonwealth Inst. Helminth., 85 pp.
helminths, cytology, annotated bibliography, 413 references

Bibliographies

- Commonwealth Institute of Helminthology, [1980 ?], Annot. Bibliogr. (H54), 8 pp.
helminths and blood groups

Bibliographies

- Commonwealth Institute of Helminthology, [1980 ?], Annot. Bibliogr. (H53), 12 pp.
helminth neurology

Bibliographies

- Dale, W. E., 1977, Rev. Peruana Entom., v. 20 (1), 100-102
bibliography of Ixodoidea from Peru, parasite list with geographical distribution and hosts

Bibliographies

- Durfee, P. T.; and Cross, J. H., 1972, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 71 (8), 509-524
catalogue of zoonoses of Taiwan, ready reference for physicians, veterinarians, and public health workers

Bibliographies

- Ernst, C. H.; and Ernst, E. M., 1979, Bull. Maryland Herpetol. Soc., v. 15 (1), 1-15
synopsis of protozoans parasitic in native turtles of the United States and Canada

Bibliographies

- Ernst, E. M.; and Ernst, C. H., 1977, Bull. Maryland Herpetol. Soc., v. 13 (1), 1-75
synopsis of helminths endoparasitic in native turtles of the United States, Canada, and Mexico, and foreign records for helminths of sea turtles

Bibliographies

- Hyakutake, S.; and Mearim, A. B., 1976, Rev. Inst. Adolfo Lutz, v. 35-36 (1), 1975-1976, 103-125
toxoplasmosis, bibliographic survey in Brazil, 1908-1975

Bibliographies

- Kumar, R.; and Lloyd, J. E., 1976, Range Sc. Dept. Sc. Ser. (18), Colorado State Univ., 33 pp.
arthropods associated with dung, bibliography

Bibliographies

- Segal, H. E., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 581-586
malaria research in Thailand: publications of the U.S. Army Medical Component, AFRIMS (formerly Southeast Asia Treaty Organization)

Bibliographies

- Willaert, E., 1974, Ann. Soc. Belge Med. Trop., v. 54 (4-5), 429-440
Naegleria, Acanthamoeba spp. causing disease in man and other vertebrates, selected bibliography and tabular survey of cases

Bile

- Sulaiman, A.; and Gips, C., 1974, Tijdschr. Gastro-enterol., v. 17 (6), 373-382
identification of gallbladder bile during duodenal intubation, includes information on diagnosis of human lamiasis

Biliary tract. [See also Digestive system; Liver]

Biliary tract

- Biersack, H. J.; et al., 1977, ROEFO, v. 127 (5), 422-427
human hepatobiliary echinococcosis, differential diagnosis using ^{99m}Tc-diethyl-IDA in hepatobiliary scintigraphy

Biliary tract

- Galves Tio, A., 1972, Rev. Peruana Med. Trop., v. 1 (2), 99-100
Fasciola hepatica, humans, associated cholecystitis, case reports: Peru

Biliary tract

- Goldstein, F.; Thornton, J. J.; and Szydlowski, T., 1978, Am. J. Digest. Dis., n.s., v. 23 (6), 559-560
Giardia lamblia, humans, hepatobiliary form, trophozoites in bile, nonvisualization of gall bladder as important diagnostic feature, relief of biliary symptoms after metronidazole therapy, clinical case report

Biliary tract

- Guenther, R.; et al., 1975, ROEFO, v. 122 (3), 242-244
Echinococcus multilocularis, man, case report, alveolar hydatid disease with extensive biliary obstruction and large cavitation in the liver due to necrosis, clinical, epidemiologic and radiologic diagnostic findings

- Biliary tract**
Kaur Bedi, A. J.; and Isseroff, H., 1979, Internat. J. Parasitol., v. 9 (5), 401-404
Schistosoma mansoni-infected mice, bile duct hyperplasia, results support data linking proline to bile duct and liver fibroblast proliferation
- Biliary tract**
Nava, C.; Metlich, M. A.; and Marti M., M., 1974, Rev. Invest. Clin., v. 26 (2), 181-185
Fasciola hepatica, human, case report of hepatic distomiasis with eggs found also in the bile and biliary tract, emetine chlorhydrate therapy resulted in permanent cure; diagnostic considerations, emphasis on frequent association between parasitism and gallstones: Villa de Reyes, San Luis Potosi, Mexico
- Biliary tract**
Park, H. G., 1977, Taehan Uihak Hyophoe Chi (J. Korean Med. Ass.), v. 20 (2), 143-147
ascariasis, human biliary tract, cholangiography, surgical and anthelmintic therapy, case reports
- Biliary tract**
Parra, O. M.; Lopes, Z. A.; and Saad, W. A., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (2), 113-119
Schistosoma mansoni, human chronic cholecystitis from parasite infection, pathology, case report: Bahia, Brazil
- Biliary tract**
Sawma, J. T.; Isseroff, H.; and Reino, D., 1978, Comp. Biochem. and Physiol., v. 61A (2), 239-243
rats, induction of bile duct hyperplasia by infusion of proline (but by none of the other amino acids tested), proline-induced hyperplasia resembles that observed in bile ducts of Fasciola hepatica-infected rats
- Biochemical taxonomy.** See Taxonomy.
- Biochemistry.** [See also Amino acids; Carbohydrates; Enzymes; Histochemistry; Hormones; Lipids; Metabolism; Nucleic acids; Prostaglandins; Proteins; Respiration]
- Biochemistry**
Arme, C.; and Walkey, M., 1970, Symposia Brit. Soc. Parasitol., v. 8, 79-101
physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)
- Biochemistry**
von Brand, T., 1979, Biochemistry and physiology of endoparasites, 447 pp.
- Biochemistry**
Shishova-Kasatochkina, O. A.; and Leutskaia, Z. K., 1979, [Biochemical aspects of the interrelationships of helminths and their hosts. Metabolism of proteins, vitamins, and steroids in the process of parasitization], 279 pp., illus.
- Biochemistry, Arthropoda**
Borozdina, N. I., 1974, Parazitologiya, Leningrad, v. 8 (5), 438-446
Oedemagena tarandi, 2nd and 3rd stage larvae, age-related changes in content of moisture, dry matter, fat, glycogen, total nitrogen, and protein
- Biochemistry, Arthropoda**
Frayha, G. J.; et al., 1974, J. Med. Entom., v. 11 (2), 168-172
Ornithodoros savignyi, rats (exper.), chemical composition of coxal fluid (electrolytes, amino acids, proteins, nucleic acids, carbohydrates, lipids), results confirm osmoregulatory role of coxal organs; sucrose detected in coxal fluid, first report in any animal tissue
- Biochemistry, Arthropoda**
Hamdy, B. H., 1977, J. Med. Entom., v. 14 (1), 15-18
ixodid ticks, comparative analysis of excretory products during feeding
- Biochemistry, Arthropoda**
Needham, G. R.; and Sauer, J. R., 1979, J. Parasitol., v. 65 (4), 531-542
Amblyomma americanum, interaction of calcium, cyclic AMP, and dopamine in controlling salivary fluid secretion
- Biochemistry, Arthropoda**
Stone, B. F.; Binnington, K. C.; and Neish, A. L., 1978, Experientia, v. 34 (9), 1173-1174
Soophilus microplus, norepinephrine identified as principal catecholamine in individual neurons of synganglion, suggests that norepinephrine may have hitherto unsuspected major physiological role in at least one group of invertebrates
- Biochemistry, Arthropoda**
Tret'iakov, A. V.; and Belinskaia, V. Z., 1974, Parazitologiya, Leningrad, v. 8 (4), 353-358; Correction (5), 471
Hypoderma spp., Oedemagena tarandi, midgut extracts of 1st stage larvae, 3 active fractions (toxic, proteolytic, collagenase)
- Biochemistry, Cestoda**
Antoniewicz, K.; Baer, W.; and Chmiel, J., 1977, Acta Parasitol. Polon., v. 24 (28-34), 283-293
Taenia saginata, phosphate compounds in immature, mature, and gravid proglottids
- Biochemistry, Cestoda**
Baldwin, J. L.; Berntzen, A. K.; and Brown, B. W., 1978, Exper. Parasitol., v. 44 (2), 190-196
Mesocostoides corti, cation concentration in calcareous corpuscles of tetrathyridia grown in vitro
- Biochemistry, Cestoda**
Baron, P. J.; and Appleton, T., 1977, Ztschr. Parasitenk., v. 53 (2), 239-246
Ligula intestinalis, aging plerocercoid probably about 10 years old in Abramis brama, light and electron microscopy of strobila, calcification of tissue with microcrystals similar to microapatite crystals in vertebrate bone; chemical analysis; mineral deposits possibly arise from host metabolic process: Layer Pit, Essex
- Biochemistry, Cestoda**
Hammerberg, B.; and Williams, J. F., 1978, J. Immunol., v. 120 (3), 1039-1045
Taenia taeniaeformis, complement-fixing activity washed from surface of metacercotodes and characterized physicochemically, active substance may be polysulfated proteoglycan, location at host-parasite interface may have significance in evasion of immune rejection

Biochemistry, Cestoda

- Jakutowicz, K.; and Korpaczewska, W., 1979, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 27 (1), 69-70
6 tapeworms and *Fasciola hepatica*, determination of Cu concentration, atomic absorption spectrometry

Biochemistry, Cestoda

- Knowles, W. J.; and Oaks, J. A., 1979, J. Parasitol., v. 65 (5), 715-731
Hymenolepis diminuta, brush border plasma membrane, isolation and partial biochemical characterization

Biochemistry, Cestoda

- Lee, M. B.; Bueding, E.; and Schiller, E. L., 1978, J. Parasitol., v. 64 (2), 257-264
Hymenolepis diminuta, *H. nana*, 5-hydroxytryptamine, presence and distribution in nervous systems detected by biochemical and histochemical methods, occurs in pattern similar to that of acetylcholinesterase, lack of 5-HT in vestigial rostellum of *H. diminuta* may be correlated with loss of function of this organ

Biochemistry, Cestoda

- Machnicka-Roguska, B., 1970, Acta Parasitol. Polon., v. 18 (13-26), 267-276
Moniezia expansa antigens, isolation and chemical analysis

Biochemistry, Cestoda

- McManus, D. P.; and Smyth, J. D., 1978, Parasitology, v. 77 (1), 103-109
Echinococcus granulosus (horse and sheep strains), *E. multilocularis*, differences in chemical composition and carbohydrate metabolism between species and strains

Biochemistry, Cestoda

- Matskasi, I.; and Nemeth, I., 1979, Internat. J. Parasitol., v. 9 (3), 221-227
Ligula intestinalis, plerocercoid larvae, properties of proteolytic and protease-inhibitor activities

Biochemistry, Cestoda

- Nemeth, I.; Juhasz, S.; and Baintner, K., 1979, Internat. J. Parasitol., v. 9 (6), 515-522
Taenia pisiformis, trypsin and chymotrypsin inhibitor demonstrated in somatic extract of mature tapeworms

Biochemistry, Cestoda

- Robinson, J. M.; and Bogitsh, B. J., 1978, Ztschr. Parasitenk., v. 56 (1), 81-92
Hymenolepis diminuta, sperm development, light and electron microscopy, cytochemistry

Biochemistry, Host

- Bankov, I.; and Tosheva, R., 1976, Khelmitologia, Sofia, v. 2, 20-25
Fasciola hepatica, guinea pigs, changes in acid-soluble nucleotide content of liver

Biochemistry, Host

- Becker, W.; and Lueth, W., 1977, Ztschr. Parasitenk., v. 53 (1), 109-113
Schistosoma mansoni-infected *Biomphalaria glabrata*, ketone body metabolism as compared with that of starved snails

Biochemistry, Host

- Blom, M.; Prag, J. B.; and Nørredam, K., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 76-83
intestinal parasites, children from Vietnam-Cambodia at and after arrival in Denmark, α_1 -acid glycoprotein, α_1 -antitrypsin, and ceruloplasmin concentrations, eosinophilia, sedimentation rates, effect of T.A.B.-cholera vaccination

Biochemistry, Host

- Boreham, P. F. L.; and Parry, M. G., 1979, Advances Biosciences, v. 17, 85-92
Trypanosoma brucei, rabbits, role of urinary and plasma kallikreins in pathogenesis, immune complexes

Biochemistry, Host

- de Britto-Costa, R.; Martins, E. (Neto Junior); and Mabum, J., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 227-234

- Chagas disease, human, biochemical alterations in mucous secretions of digestive tract and bronchus attributed to disturbances of autonomic regulation resulting from infection

Biochemistry, Host

- Burky, A. J.; and Hornbach, D. J., 1979, J. Parasitol., v. 65 (3), 371-374
Leucochloridium variae, carbon and nitrogen content of parasite and of infected and uninfected *Succinea ovalis*

Biochemistry, Host

- Dembinski, A. B.; Johnson, L. R.; and Castro, G. A., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 854-859
Trichinella spiralis-infected dogs, inhibitory action of secretin on gastrin-stimulated gastric acid and pepsin secretion is compromised

Biochemistry, Host

- Dey-Hazra, A.; et al., 1979, Vet. Parasitol., v. 5 (4), 339-351
Strongyloides ransomi-infected piglets, protein synthesis changes in liver, glutathione status of liver, electrolyte concentrations in plasma, erythrocytes, and in different organs, plasma enzyme activities

Biochemistry, Host

- Dubinsky, P.; and Rybos, M., 1977, Vet. Med., Praha, v. 50, v. 22 (7), 433-439
Ascaridia galli, chicks (exper.), negative influence on level of free plasma amino acids, aspartate and alanine aminotransferase activities in host chick serum, single invasion failed to influence serum protein level or weight increase in chicks kept under hygienic conditions

Biochemistry, Host

- Edel'shtein, I. A.; Falkina, F. B.; and Arestov, I. G., 1971, Vestsi Akad. Navuk BSSR, s. Biial. Navuk (1), 117-120

- ascariasis, cats, rabbits, pathogenesis, sulfhydryl group in toxic substances from parasites apparently causes blocking of host enzyme system and other protein complexes

Biochemistry, Host

- El-Abdin, Y. Z.; Hamza, S. M.; and El Refaai, A. H., 1977, Egypt. J. Vet. Sc., v. 13 (2), 1976, 77-84

- Theileria annulata*, cattle, imidocarb dihydrochloride, serum enzyme activities and chemical constituents before and after treatment

- Biochemistry, Host**
 Enigk, K.; and Dey-Hazra, A., 1978, Zentralbl. Vet.-Med., Reihe B, v. 25 (8), 615-622
 roundworms, pigs (exper.), disaccharidase activity of gut mucosa, electrolyte content of plasma and various organs
- Biochemistry, Host**
 Fabia, F.; et al., 1979, Ann. Parasitol., v. 54 (1), 1-10
 Plasmodium chabaudi-infected mice, increase in sialic acids, neutral hexoses, and fucose on surface of red blood cells, coincides with reticulocytosis
- Biochemistry, Host**
 Fiorillo, A. M.; and Muccillo, G., 1975, Rev. Brasil. Pesqui. Med. e Biol., v. 8 (1), 1-8
 Chagas disease in rats, excretion of urinary catecholamines under basal conditions, after insulin hypoglycemia and under reserpine stimulation, comparison with normal controls
- Biochemistry, Host**
 Furmaga, S.; Gundlach, J. L.; and Sobieszewski, K., 1974, Acta Parasitol. Polon., v. 22 (12-21), 229-247
 Fasciola hepatica-infected and uninfected sheep treated and not treated with 3 fasciolides (fasciolin, distolon, and zanil), blood serum levels of Ca, P, Na, K, and Mg
- Biochemistry, Host**
 Ghazal, A.; Ismail, M.; and Sharabi, F. M., 1978, Egypt. J. Pharm. Sc., v. 17 (1), 1976, 43-52
 Schistosoma mansoni-infected mice, tissue histamine content before and after treatment with several antischistosomal drugs
- Biochemistry, Host**
 Gillett, M. P. T.; and Carvalho, V. C., 1978, Exper. Parasitol., v. 44 (2), 173-180
 Schistosoma mansoni, mice, humans, alterations of plasma and erythrocyte lipids associated with hepatosplenic schistosomiasis, differences between the two host species, possible applications
- Biochemistry, Host**
 Goodger, B. V.; and Wright, I. G., 1977, Ztschr. Parasitenk., v. 54 (1), 9-27
 Babesia bovis-infected cattle, altered and activated coagulation system, coagulation parameters, fibrinogen catabolism, and fibrinolysis in intact and splenectomized cattle
- Biochemistry, Host**
 Guimaraes, A. C.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 80-93
 [Schistosoma] mansoni, humans, blood gas changes and pulmonary hemodynamics in portal hypertension
- Biochemistry, Host**
 Habib, Y. A.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (7), 142-144
 schistosomiasis, males without ascites, estimation of hepatic intracellular electrolytes content, concluded that increase in intracellular sodium content is an early finding before ascites develops
- Biochemistry, Host**
 Hirsch, R. P., 1979, Internat. J. Parasitol., v. 9 (5), 395-399
 Histomonas meleagridis-infected turkeys, dynamics of protozoan population density, plasma glutamic oxalacetic transaminase, plasma bilirubin concentration, relationship to clinical symptoms
- Biochemistry, Host**
 Illembade, A. A.; and Blotkamp, C., 1978, Tropenmed. u. Parasitol., v. 29 (4), 443-450
 Eperythrozoon ovis, sheep (exper.), pathologic changes in blood picture, concurrent or superimposed infection with Trypanosoma vivax did not affect growth of either parasite
- Biochemistry, Host**
 Jablonowska, C., 1971, Acta Parasitol. Polon., v. 19 (9-18), 195-204
 Ascaris suum, changes in level of acid-soluble phosphate compounds and their metabolism in blood and liver of guinea pigs (exper.)
- Biochemistry, Host**
 Jablonowska, C.; and Jablonowski, Z., 1974, Acta Parasitol. Polon., v. 22 (12-21), 249-259
 Ascaris suum and vitamin C deficiency, effect on levels of glucose and acid-soluble phosphate compounds in blood of guinea pigs
- Biochemistry, Host**
 Jablonowski, Z., 1976, Acta Parasitol. Polon., v. 24 (11-19), 165-183
 Ascaris suum-infected guinea pigs, levels of vitamins B₂ and C in some tissues and organs, organ weights
- Biochemistry, Host**
 Jablonowski, Z., 1977, Acta Parasitol. Polon., v. 24 (28-34), 295-314
 Ascaris suum-infected guinea pigs fed diets varying in vitamin C content, levels of vitamins C and B₂ in some organs, organ weights
- Biochemistry, Host**
 Kameswari, M.; Ramulu, G. R.; and Rao, L. N., 1979, Indian J. Exper. Biol., v. 17 (9), 976-979
 helminth-infected Rana tigerina, macromolecular changes in liver
- Biochemistry, Host**
 Khovanskikh, A. E., 1977, Sel'skokhoz. Biol., v. 12 (2), 245-250
 Eimeria tenella, E. mitis, biochemical characteristics of pathogenesis in chickens, review
- Biochemistry, Host**
 Khovanskikh, A. E.; Krylov, M. V.; and Kyrlov, V. F., 1972, Parazitologiya, Leningrad, v. 6 (1), 8-10
 Eimeria tenella-infected chickens (exper.), zinc concentration in various tissues and organs at different stages of infection
- Biochemistry, Host**
 Khovanskikh, A. E.; Krylov, M. V.; and Ludi-nova, I. C., 1974, Parazitologiya, Leningrad, v. 8 (2), 164-169
 Eimeria tenella, chickens (exper.), absorption of iron in small intestine, concentration of iron in tissues and organs

- Biochemistry, Host**
 Krivutenko, A. I.; and Taranenko, I. L., 1977, *Veterinariia*, Moskva (8), 74-76
Heterakis gallinarum-infected turkeys, electrolyte and mineral metabolism
- Biochemistry, Host**
 Laiblin, C.; Baysu, N.; and Mueller, M., 1978, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 91 (2), 25-27
Theileria annulata, cattle (exper.), extent of liver and kidney damage estimated by enzyme activity, bilirubin, and urea levels; there was no difference between cattle receiving liverprotecting medication and those that did not
- Biochemistry, Host**
 Lal, A. A.; and Garg, N. K., 1979, *Exper. Parasitol.*, v. 48 (3), 331-336
Hartmannella culbertsoni, meningoencephalitic mice, biochemical changes in brain
- Biochemistry, Host**
 Lal, D. M.; and Hussain, Q. Z., 1979, *Indian J. Med. Research*, v. 70, 13-16
Plasmodium berghei-infected rats, serum urea and electrolyte levels
- Biochemistry, Host**
 Levy, R.; Van Rinsvelt, H. A.; and Miller, T. W., jr., 1979, *J. Nematol.*, v. 11 (1), 100-103
Romanomermis culicivorax, major- and trace-element analyses of parasite and of parasitized and unparasitized *Culex pipiens quinquefasciatus*, proton-induced X-ray emission
- Biochemistry, Host**
 Moore, M. N.; and Halton, D. W., 1977, *Ztschr. Parasitenk.*, v. 53 (1), 115-122
Himastha leptosoma, *Cryptocotyle lingua*, *Cercaria linearis* in *Littorina littorea*, lysosomal hydrolases in digestive cells of infected and uninfected snails
- Biochemistry, Host**
 Musaev, M. A.; and Ibragimova, G. G., 1974, *Parazitologiya*, Leningrad, v. 8 (1), 70-73
Eimeria tenella, *E. mitis*, chickens (exper.), changes in lecithin content of blood serum at different stages of infection, extent of biochemical changes depends on pathogenicity of different species and host age
- Biochemistry, Host**
 Nikulin, T. G.; Shpak, G. E.; and Savchenko, V. F., 1977, *Veterinariia*, Moskva (10), 80-81
balantidiasis, oesophagostomiasis, mixed infection in swine (exper.), changes in carboanhydrase and alkaline phosphatase activities
- Biochemistry, Host**
 de Oliveira, D. N. G.; Costa, J. C.; and de Carvalho, A. B., 1974, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 7 (5-6), 525-528
Schistosoma mansoni-infected mice, measurement of concentrations of cholesterol and cholesterol esters from infected host livers and comparison with normal controls
- Biochemistry, Host**
 Onabanjo, A. O., 1978, *Agents and Actions*, v. 8 (1-2), 139-140
Plasmodium knowlesi in *Macaca mulatta*, plasma kinin concentration, physiopathological effects of kinin extracts from blood of infected monkeys when injected intradermally into guinea pigs
- Biochemistry, Host**
 Palermo, D.; and Quaglino Maccotta, G., 1979, *Riv. Zootecn. e Vet.* (2), 61-63
 gastrointestinal strongylosis, sheep, variability of blood mineral levels
- Biochemistry, Host**
 Pappas, P. W., 1978, *J. Parasitol.*, v. 64 (2), 265-272
Hymenolepis microstoma-infected mice, biochemical alterations in liver, spleen, small intestine, and bile ducts, data indicate that all organs undergo significant hyperplasia and that deposition of collagen does not make significant contribution to process of organ growth
- Biochemistry, Host**
 Petit, G.; and Spitalier-Kaveh, H., 1979, *Ann. Parasitol.*, v. 54 (1), 81-92
Dipetalonema dessetae-infected *Aedes aegypti* before and after blood meal, histology and ultrastructure of adipose tissue
- Biochemistry, Host**
 Pricoli, T. I.; et al., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (4), 202-211
Schistosoma mansoni, human hepato-intestinal and hepato-splenic forms, comparative study of liver lysosomes, no significant differences between forms of infection or between normal and infected livers
- Biochemistry, Host**
 Rai, R. D.; and Mohan Rao, V. K., 1978, *Indian J. Exper. Biol.*, v. 16 (8), 903-905
Hartmannella culbertsoni, mice, experimental amoebic meningoencephalitis, gross biochemical changes in brain
- Biochemistry, Host**
 Ramadan, M. I. A.; et al., 1977, *J. Trop. Med. and Hyg.*, v. 80 (12), 243-247
 patients with schistosomiasis found to have subnormal levels of metal ions, recommendation that preoperative and postoperative monitoring of metal ions (particularly zinc and magnesium) should be considered in infected patients undergoing major surgery under ether anesthesia
- Biochemistry, Host**
 Romaniuk, K., 1974, *Acta Parasitol. Polon.*, v. 22 (1-11), 29-48
Hypoderma bovis, pathogenesis in cattle, content of sialic acid, properdin, and proteins in blood serum during course of complete cycle of infestation
- Biochemistry, Host**
 Romestand, B., 1979, *Ann. Parasitol.*, v. 54 (4), 423-448
Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts
- Biochemistry, Host**
 Sadek, A. M.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (2), 139-143
 human schistosomal hepatic fibrosis with presinusoidal obstruction, study of chemical constituents (proteins, immunoglobulins, lipids, enzymes, electrolytes) of thoracic duct lymph and of serum, comparison with controls

- Biochemistry, Host
Silva, R. M.; Ferreira Neto, J. M.; and Sam-
paio, I. B. M., 1978, Arq. Escola Vet. Univ.
Fed. Minas Gerais, v. 30 (3), 261-274
Haemonchus contortus, sheep (exper.), in-
fluence of diet and parasites on copper,
iron, and zinc in blood serum
- Biochemistry, Host
Stewart, G. L., 1976, Rice Univ. Studies, v. 62
(4), 211-224
Trichinella spiralis, mice, biochemical
pathology: changes in liver and muscle glyco-
gen and some blood chemical parameters
- Biochemistry, Host
Surkova, A. M., 1972, Parazitologiya, Lenin-
grad, v. 6 (2), 171-175
Eimeria tenella, E. mitis, chickens (exper.),
changes in total, residual, and protein
nitrogen content in liver, depends on stage
of development of parasite, host age, and
species of Coccidia
- Biochemistry, Host
Waslien, C. I.; Farid, Z.; and Darby, W. J.,
1973, South. Med. J., v. 66 (1), 47-50
schistosomiasis and/or hookworm, humans, study
of blood and nutrition losses shows that drain
on iron, protein, zinc and vitamin A stores
plus other pathology is more significant as
cause of malnutrition than abnormality of ab-
sorption functions: Egypt
- Biochemistry, Host
Wassermann, M.; et al., 1974, Rev. Soc. Bra-
sil. Med. Trop., v. 8 (5), 271-273
hepato-splenic schistosomiasis, statistically
significant increased DDT (and its metabo-
lites) storage in adipose tissue of infected
persons when compared with normal controls,
probable result of decreased metabolism and
reduced excretion of its metabolites or of
increased exposure since most infected per-
sons lived near irrigation zones where the
insecticide was used for intensive cultiva-
tion: Bahia, Brazil
- Biochemistry, Host
Zajicek, D.; et al., 1977, Vet. Med., Praha,
v. 50, v. 22 (2), 99-108
Paramphistomum sp., lambs (exper.), patho-
genic effect on blood values, amino-transfer-
ases, alkaline phosphatase, minerals in
blood serum
- Biochemistry, Miscellaneous phyla
Shyamasundari, K., 1976, Acta Parasitol. Polon.,
v. 24 (11-19), 199-202
Myzostomum gopalai, M. striatum, cytochemis-
try of female gametes, phospholipid nature of
conspicuous yolk bodies in oocyte cytoplasm
- Biochemistry, Nematoda
Bird, A. F.; et al., 1978, Internat. J. Parasi-
tol., v. 8 (1), 69-74
crystals in intestinal cells of Haemonchus
contortus and in intestinal lumen of Oster-
tagia ostertagi, morphology and chemical com-
position, thought to be by-products of de-
generative processes
- Biochemistry, Nematoda
Edel'shtein, I. A.; Falkina, F. B.; and Ares-
tov, I. G., 1971, Vestsi Akad. Navuk BSSR,
s. Biial. Navuk (1), 117-120
ascariasis, cats, rabbits, pathogenesis,
sulfhydryl group in toxic substances from
parasites apparently causes blocking of
host enzyme system and other protein com-
plexes
- Biochemistry, Nematoda
Farland, W. H.; and MacInnis, A. J., 1978,
Internat. J. Parasitol., v. 8 (3), 177-186
Ascaris lumbricoides, purine nucleotide con-
tent of developing eggs, implications for
nucleic acid metabolism
- Biochemistry, Nematoda
Hackett, C. J.; and Chen, K. C., 1978, Analyt.
Biochem., v. 89 (2), 487-500
Ascaris lumbricoides var. suum, A. megaloc-
cephala, procedure for quantitative isolation
of native chitin from fertilized eggs
- Biochemistry, Nematoda
Juhász, S.; and Nemeth, I., 1979, Acta Vet.,
Budapest, v. 27 (3), 217-224
Ascaris suum, N-benzoyl-L-tyrosine-ethyl
ester-splitting proteolytic enzyme from in-
testine, chymotrypsin inhibitors from intes-
tine, cuticle, and in vitro maintenance
medium, estimation of molecular weights by
gel chromatography
- Biochemistry, Nematoda
Kuhn, O.; and Tobler, H., 1978, Biochim. et
Biophys. Acta, v. 521 (1), 251-266
Ascaris lumbricoides (var. suum), oocytes,
zygotes, larvae, spermatids, quantitative
analysis of RNA, glycogen, and nucleotides
- Biochemistry, Nematoda
Levy, R.; Van Rinsvelt, H. A.; and Miller,
T. W., jr., 1979, J. Nematol., v. 11 (1),
100-103
Romanomermis culicivorax, major- and trace-
element analyses of parasite and of parasi-
tized and unparasitized Culex pipiens quin-
quefasciatus, proton-induced X-ray emission
- Biochemistry, Nematoda
Lur'e, B. L.; Kochetova, M. M.; and Shumako-
vich, I. E., 1977, Vestnik Moskov. Univ., s.
Biol. (1), 27-29
Fasciola hepatica, Ascaris suum, and other
invertebrates, qualitative analysis of
catecholamines in tissues
- Biochemistry, Nematoda
Matuda, S., 1979, J. Biochem., Tokyo, v. 85
(2), 343-350
Ascaris lumbricoides var. suum, muscle micro-
somes, isolation and biochemical characteriza-
tion, electron transport
- Biochemistry, Nematoda
Phillips, L.; Sturman, G.; and West, G. B.,
1975, Agents and Actions, v. 5 (5), 467
Ascaris suum, variations in histamine con-
tent, effect of piperazine

- Biochemistry, Nematoda
Rao, K. N., 1978, Comp. Physiol. and Ecol., v. 3 (4), 256-257
Litomosoides carinii, neurotransmitters (acetylcholinesterase, noradrenalin, and protein), activity levels
- Biochemistry, Nematoda
Rhoads, M. L.; et al., 1978, J. Biol. Chem., v. 253 (5), 1639-1642
Stephanurus dentatus, proteinase inhibitors from excretory gland cells, purification and properties, proteinase inhibitors also isolated and purified from other tissues as well as from culture medium after incubation with adult worms and compared with inhibitors from excretory gland cells
- Biochemistry, Nematoda
Shishov, B. A.; and Maliutina, T. A., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 255-258
Ascaridia galli, effects of perfusates of nematode body cavity on isolated frogs' hearts, results indicate presence of acetylcholine or pharmacologically close substance as well as 2 other substances
- Biochemistry, Nematoda
Singhal, K. C.; et al., 1978, Indian J. Physiol. and Pharmacol., v. 22 (1), 71-74
Setaria cervi adults, estimation of total and free acetylcholine and cholinesterase content, acetylcholine as possible neurotransmitter; implications for designing cholinergic blocking agents which are selective to the parasite
- Biochemistry, Nematoda
Sinha, J. N.; and Majumdar, G., 1977, Riv. Parassitol., Roma, v. 38 (1), 31-35
Trichinella spiralis, ash content analyzed by emission spectroscopy, comparison with Ascaris lumbricoides
- Biochemistry, Nematoda
Wharton, D. A.; and Jenkins, T., 1978, Tissue and Cell, v. 10 (3), 427-440
Trichuris suis, egg-shell, structural and chemical analysis
- Biochemistry, Protozoa
Bacchi, C. J.; et al., 1979, J. Protozool., v. 26 (3), 484-488
Trypanosoma brucei, bloodstream trypomastigotes, synthesis and content of polyamines
- Biochemistry, Protozoa
Bachrach, U.; et al., 1979, Exper. Parasitol., v. 48 (3), 457-463
Leishmania spp., cellular levels and synthesis of polyamines during growth cycle, polyamines characteristics might serve as further criterion for strain identification and classification
- Biochemistry, Protozoa
Benito, J., 1978, Bol. R. Soc. Espan. Hist. Nat., Secc. Biol., v. 75, 1977, 267-273
Eimeria beauchampi, cytochemistry, pathology
- Biochemistry, Protozoa
da Costa, S. C. G.; da Silva, A. M.; and Martinez Bernaola, N., 1970, Atas Soc. Biol. Rio de Janeiro, v. 13 (1-2), 55-58
Haemogregarina leptodactyli, cytochemical studies
- Biochemistry, Protozoa
Davies, A. J., 1978, J. Protozool., v. 25 (1), 15-21
Eimeria dingleyi sp. n., E. variabilis, cytochemistry
- Biochemistry, Protozoa
Dutta, G. P., 1977, J. Scient. and Indust. Research, India, v. 36 (5), 226-240
Entamoeba histolytica and other anaerobic amoebae, cytoplasmic inclusions, recent advances in cytochemistry and ultrastructure, role in physiology and pathogenesis, review
- Biochemistry, Protozoa
Dutta, G. P., 1979, J. Scient. and Indust. Research, India, v. 38 (4), 199-218
pathogenic and nonpathogenic aerobic free-living amoebae, characterization of cytoplasmic inclusions, cytochemistry and ultrastructure, review
- Biochemistry, Protozoa
Elpidina, E. N.; Zaitseva, G. N.; and Krashe-nnikov, I. A., 1979, Biokhimiia, v. 44 (10), 1830-1841
Trypanosoma lewisi, histones from nuclei characterized in terms of chemical composition and RNA-polymerase activity
- Biochemistry, Protozoa
Gutteridge, W. E.; and Coombs, G. H., 1977, Biochemistry of parasitic protozoa, 172 pp., illus.
biochemistry of parasitic protozoa, textbook: methodology; catabolism and generation of energy; nucleic acid metabolism; protein metabolism; lipid metabolism; biochemical mechanism of drug action; isolation of parasitic protozoa from infected animals; culture of parasitic protozoa
- Biochemistry, Protozoa
Keller, R. M.; Picot, D.; and Wuethrich, K., 1979, Biochim. et Biophys. Acta, v. 580 (2), 259-265
Crithidia oncopelti, individual assignments of heme resonances in 360 MHz ¹H NMR spectra of cytochrome c-557
- Biochemistry, Protozoa
de Lederkremer, R. M.; et al., 1978, Biochem. and Biophys. Research Commun., v. 85 (4), 1268-1274
Trypanosoma cruzi, ceramide and inositol content of the lipopeptidophosphoglycan isolated from whole cells of epimastigote forms
- Biochemistry, Protozoa
Lo, H. S.; and Reeves, R. E., 1979, Exper. Parasitol., v. 47 (2), 180-184
Entamoeba histolytica, flavins in axenic organisms and in growth medium, demonstration of in vivo biosynthesis of flavin nucleotides from riboflavin
- Biochemistry, Protozoa
Momen, H.; Chance, M. L.; and Peters, W., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 203-212
Babesia spp., human and animal strains and Anthemosoma garnhami, taxonomic differentiation using biochemical methods (variation in mobility of parasite enzymes on starch gels after electrophoresis, measurement of buoyant densities of DNA)

- Biochemistry, Protozoa
Schnur, L. F.; et al., 1979, FEBS Letters, v. 106 (1), 202-206
Leishmania tropica minor, L. aethiopica, polyamine synthesis and levels during growth and replication
- Biochemistry, Protozoa
da Silveira, J. F.; Abrahamsohn, P. A.; and Colli, W., 1979, Biochim. et Biophys. Acta, v. 550 (2), 222-232
Trypanosoma cruzi epimastigotes, method of isolation of plasma membrane vesicles, general analysis of their properties, protein and carbohydrate content, antigenicity
- Biochemistry, Protozoa
Sledge, W. E.; Larson, A. D.; and Hart, L. T., 1978, Science (4325), v. 199, 186-188
Tritrichomonas foetus, costae, procedure for purification, chemical composition (95% carbohydrate, 5% protein), evidence of structural association among costae, kinetosomes, and flagella
- Biochemistry, Protozoa
Stotish, R. L.; Wang, C. C.; and Meyenhofer, M., [1979], J. Parasitol., v. 64 (6), 1978, 1074-1081
Eimeria tenella, oocyst wall, lipid composition, carbohydrate composition, protein content, amino acid analysis, proposed organization of cell wall, results suggest explanation for physical and mechanical resistance of oocyst wall as well as possible mechanisms for excystation of sporulated oocysts
- Biochemistry, Protozoa
Voorheis, H. P.; et al., 1979, Biochem. J., v. 180 (1), 11-24
Trypanosoma brucei, plasma membrane, isolation and partial characterization
- Biochemistry, Protozoa
Weik, R. R.; and John, D. T., 1978, J. Parasitol., v. 64 (4), 746-747
Naegleria fowleri, average number of nuclei per ameba, macromolecular composition (mass, protein, RNA, DNA, carbohydrate), changes during growth in vitro
- Biochemistry, Protozoa
Yoneda, S., 1971, Rev. Brasil. Pesqui. Med. e Biol., v. 4 (3), 205-218
Trypanosoma cruzi in tissue culture, purine metabolism in the intracellular phase of development; possible application to chemotherapeutic assays as during this period parasite exhibits greatest resistance to therapy
- Biochemistry, Trematoda
Alcaino, H.; and Baker, N. F., 1977, Arch. Med. Vet., Valdivia, v. 9 (1), 68-71
Fasciola hepatica, review of enzymes, isozymes and metabolic pathways
- Biochemistry, Trematoda
Bankov, I.; and Osikovski, E., 1976, Khel'mintologiya, Sofia, v. 2, 13-19
Fasciola hepatica, identification of free amino acids and other ninhydrin-positive compounds
- Biochemistry, Trematoda
Burky, A. J.; and Hornbach, D. J., 1979, J. Parasitol., v. 65 (3), 371-374
Leucochloridium variae, carbon and nitrogen content of parasite and of infected and uninfected Succinea ovalis
- Biochemistry, Trematoda
Dei-Cas, E.; et al., 1979, Biol. Cell., v. 35 (3), 321-324
Schistosoma mansoni, ultrastructural localization of tritiated 5-hydroxytryptamine incorporated by adult worms in vitro
- Biochemistry, Trematoda
Dorsey, C. H.; and Stirewalt, M. A., 1977, Ztschr. Parasitenk., v. 54 (2), 165-173
Schistosoma mansoni cercariae, large concentrations of calcium in preacetabular glands localized in electron-lucent areas of type-A granules
- Biochemistry, Trematoda
Erasmus, D. A.; and Davies, T. W., 1979, Exper. Parasitol., v. 47 (1), 91-106
Schistosoma mansoni, S. haematobium, calcareous corpuscles in vitelline cells, morphological observations, X-ray microanalysis, effect of drug treatment
- Biochemistry, Trematoda
Halton, D. W.; and Hendrix, S. S., 1978, Ztschr. Parasitenk., v. 57 (3), 237-241
Lobostoma ringens, chemical composition and histochemistry
- Biochemistry, Trematoda
Jakutowicz, K.; and Korpaczewska, W., 1979, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 27 (1), 69-70
6 tapeworms and Fasciola hepatica, determination of Cu concentration, atomic absorption spectrometry
- Biochemistry, Trematoda
Kanwar, U.; and Agrawal, M., 1977, Zool. Polon., v. 26 (2), 117-124
Diplodiscus amphichrus, cytochemical studies of Mehlis' gland cells
- Biochemistry, Trematoda
Lur'e, B. L.; Kochetova, M. M.; and Shumakovich, I. E., 1977, Vestnik Moskov. Univ., s. Biol. (1), 27-29
Fasciola hepatica, Ascaris suum, and other invertebrates, qualitative analysis of catecholamines in tissues
- Biochemistry, Trematoda
Mohandas, A.; and Nadakal, A. M., 1978, Ztschr. Parasitenk., v. 55 (2), 139-151
Echinostoma malayanum, development in rats, heavy population density effects (lengthened prepatent period, undersized worms, decreased proteins, lipids, calcium, and ash but not glycogen); pathological changes in rat intestine: in vitro metacercarial excystment
- Biogeography. See Geographic distribution.
- Biological clocks. See Periodicity.
- Biological control
Ahrens, F. H.; et al., 1976, J. Med. Entom., v. 12 (6), 691-694
Cochliomyia hominivorax, new strain ('TEX-MEX') outperformed standard production strain ('APHIS') in dispersal and survival in field trials: Central Texas river valley; South Texas rangeland

- Biological control
Anderson, R. M., 1979, *Nature*, London (5709), v. 279, 150-152
relationship between parasite pathogenicity and consequent depression of host population equilibria, micro- and macroparasitic infection models, implications for use of parasites as biological control agents
- Biological control
Andreadis, T. G.; and Hall, D. W., 1979, *J. Protozool.*, v. 26 (3), 444-452
Amblyospora sp., development, ultrastructure, and mode of transmission in *Culex salinarius*
- Biological control
Anthony, D. W.; Lotzkar, M. D.; and Avery, S. W., 1978, *Mosquito News*, v. 38 (1), 116-121
Nosema algerae, infection rates, reproductive capacity, and longevity of *Anopheles albimanus* exposed at each larval instar, results indicate that introduction of *N. algerae* into natural *A. albimanus* populations of mixed larval instars could significantly reduce number and fertility of mosquito eggs
- Biological control
Bailey, C. H.; and Gordon, R., 1977, *Canad. J. Zool.*, v. 55 (1), 148-154
Neomesomermis flumenalis in Simuliidae, spatial and host differences in rates of infection, temporal and (parasite) sex differences in emergence pattern of postparasites
- Biological control
Bailey, C. H.; Gordon, R.; and Mills, C., 1977, *Canad. J. Zool.*, v. 55 (2), 391-397
Neomesomermis flumenalis free-living stages from field-collected blackfly larvae, culture methods and development in laboratory
- Biological control
Bailey, D. L.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 902-908
technology for sterilizing and packaging male *Anopheles albimanus* for field release in endemic malaria areas
- Biological control
Blinova, S. L.; Kakuliia, G. A.; and Slankis, A. Ia., 1973, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 23, 20-36
nematodes of insect pests of wood of conifers, parasite and host lists, extensive review: USSR
- Biological control
Bosque, C.; and Rabinovich, J. E., 1979, *Canad. Entom.*, v. 111 (2), 171-180
Telenomus fariai parasitizing eggs of *Triatoma phyllosoma pallidipennis*, vector of Chagas' disease, oviposition behavior and host discrimination
- Biological control
Bozhkov, D.; and Kaitazov, A., 1976, *Khel'mintologiya, Sofia*, v. 2, 26-31
Hexameris sp. in *Leptinotarsa decemlineata*, possible use in biological control: Bulgaria
- Biological control
Brown, B. J.; and Platzer, E. G., 1978, *J. Nematol.*, v. 10 (2), 110-113
Romanomermis culicivorax, effect of various dissolved oxygen concentrations at various temperatures on infectivity for *Culex pipiens*
- Biological control
Brown, H. E.; and Snow, J. W., 1979, *J. Med. Entom.*, v. 16 (1), 29-32
Cochliomyia hominivorax larvae, new liquid rearing medium, cost savings in sterile male release program
- Biological control
Bunnag, T.; de Freitas, J. R.; and Scott, H. G., 1977, *Trop. and Geogr. Med.*, v. 29 (4), 411-414
Schistosoma mansoni, miracidiphagic activity of *Lebistes reticulatus*, laboratory experiments
- Biological control
Bustillo, A. E., 1976, *Rev. Colomb. Entom.*, v. 2 (4), 139-144
Neoapectana carpocapsae, pathogenic to larvae and prepupae of *Oxydia trychiata* under simulated field conditions, technique for mass production of nematode using prepupae of *Galleria mellonella*, isolation from nematode of mutualistic bacteria *Achromobacter nematophilus*
- Biological control
Busvine, J. R., 1978, *Nature*, London (5664), v. 273, 604-607
current problems in control of mosquitoes, review
- Biological control
Canning, E. U.; Higby, G. C.; and Nicholas, J. P., 1979, *Parasitology*, v. 79 (3), 381-392
Nosema eurytremae, pathogenicity to *Fasciola hepatica* in *Lymnaea trunculata*
- Biological control
Chandrasah, R. K.; and Rajogopalan, P. K., 1979, *Indian J. Med. Research*, v. 69, 63-70
Romanomermis sp. and fungus, parasitism of mosquito larvae, seasonal incidence and effect on mosquito breeding
- Biological control
Cheng, T. C.; Guida, V. G.; and Gerhart, P. L., 1978, *J. Invert. Path.*, v. 32 (3), 297-302
snail defense mechanisms, *Biomphalaria glabrata* challenged with bacteria, significant elevations in levels of total serum proteins, levels of lysozyme activity not altered possibly due to age of snails
- Biological control
Chu, K. Y., 1978, *Bull. World Health Organ.*, v. 56 (2), 313-322
Schistosoma haematobium, snail control trials by modification of habitat and application of niclosamide: Volta Lake village, Ghana
- Biological control
Chu, W. H.; and Jaques, R. P., 1979, *Entomophaga*, v. 24 (3), 229-235
Vairimorpha necatrix in *Trichoplusia ni* (exper.) (fat body, muscle tissue, midgut), symptoms, histopathology
- Biological control
Collins, P., 1979, *Nature*, London (5737), v. 282, 349
WHO looks at *Bacillus thuringiensis* for vector control, news report

- Biological control**
Coppedge, J. R.; et al., 1978, J. Econom. Entom., v. 71 (4), 579-584
Cochliomyia hominivorax, evaluation of screw-worm adult suppression system (SWASS), a bait-toxicant system using swormlure-2 and dichlorvos, elimination by SWASS coupled with later release of sterile screwworms: Curacao
- Biological control**
Coppedge, J. R.; Ahrens, E. H.; and Snow, J. W., 1978, J. Econom. Entom., v. 71 (4), 573-575
Cochliomyia hominivorax, swormlure-2 baited traps for detection of native fly populations, trial survey, use in developing fly-release strategies: 12 south Texas counties
- Biological control**
Coppel, H. C.; and Mertins, J. W., 1977, Advanced Ser. Agric. Sc., v. 4, 314 pp.
nematodes, protozoans, and other organisms used in classical biological insect pest suppression
- Biological control**
Corliss, J. O.; Berl, D.; and Laird, M., 1979, Tr. Am. Micr. Soc., v. 98 (4), 587-591
Tetrahymena sp. in Simulium damnosum (haemocoel), potential biocontrol agent: Ivory Coast
- Biological control**
Davronov, O., 1973, Parazitologiya, Leningrad, v. 7 (2), 190-191
Eimeria sp., virulence for Mus musculus, possible use in biological control of house mice
- Biological control**
Dhillon, M. S.; and Platzner, E. G., 1978, Proc. and Papers 46. Ann. Conf. Calif. Mosquito and Vector Control Ass. (Yosemite, California, Jan. 29-Feb. 1), 92-93
Romanomermis culicivorax, control of fungus hyperparasitic in nematode, problem in mass raising for mosquito biological control, fungicides evaluated
- Biological control**
Ducklow, H. W.; et al., 1979, Applied and Environment. Microbiol., v. 38 (4), 667-672
bacterial flora of field and laboratory populations of schistosome vector Biomphalaria glabrata, relevance for biocontrol: Puerto Rico; St. Lucia; Guadeloupe
- Biological control**
Elsey, K. D., 1977, Canad. Entom., v. 109 (9), 1283-1285
Howardula sp., rate of dissemination of juveniles by adult Epitrix hirtipennis at two temperatures, no significant difference between the total number of juveniles released from male vs. female beetles, sex ratio of released juveniles highly in favor of females: Oxford, North Carolina
- Biological control**
English, A. W., 1979, Austral. Vet. J., v. 55 (7), 315-321
coprophagous arthropods in horse feces, identity and activity, concluded that dung beetles are of little benefit in control of equine strongylosis in absence of other control measures: Moggill, southern Queensland
- Biological control**
Ewen, A. B.; and Mukerji, M. K., 1979, Canad. Entom., v. 111 (8), 973-974
Nosema locustae, susceptibility of 5 grasshopper species to field applications, degree of infestation, pathogen overwintering: near Biggar, Saskatchewan
- Biological control**
Fashuyi, S. A.; and Williams, M. O., 1977, Ztschr. Parasitenk., v. 54 (1), 55-60
trematode-infected snails, role of oligochaete Chaetogaster limnaei in dynamics of trematode transmission (possibly protects snails against miracidia, plays no part in reducing number of cercariae), seasonal distribution in relation to cercarial shedding
- Biological control**
Felicangeli, M. D., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 235-238
Chagas disease vector Rhodnius prolixus eggs found naturally parasitized by endophagous Microhymenoptera, possible importance as biological control: Venezuela
- Biological control**
Felicangeli, D.; and Rabinovich, J. E., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 21-34
effects of population density on Ooencyrtus trinidadensis, parasite of Rhodnius prolixus eggs: Venezuela
- Biological control**
Finney, J. R.; and Walker, C., 1979, J. Invert. Path., v. 33 (2), 239-241
Neoplectana sp., DD-136 strain, field trials for control of Scolytus scolytus, single application insufficient to decrease overwintering population, further studies needed
- Biological control**
Frandsen, F.; and Madsen, H., 1979, Acta Trop., v. 36 (1), 67-84
schistosomiasis, possible use of Helisoma duryi in biological control as competitor of intermediate host snails, review
- Biological control**
Frank, J. H.; and Curtis, G. A., 1977, Mosquito News, v. 37 (3), 487-489
Pilosporella fishi in Wyeomyia vanduzeei, greater mortality of female than male mosquitoes, incidence too low to affect size of mosquito population: near Vero Beach, Florida
- Biological control**
Fuxa, J. R., 1979, J. Invert. Path., v. 33 (5), 516-525
Vairimorpha necatrix, interactions with bacterium, virus, and fungus in Heliothis zea (exper.)
- Biological control**
Fuxa, J. R.; and Brooks, W. M., 1979, J. Invert. Path., v. 33 (1), 86-94
Vairimorpha necatrix, mass production and storage methods

- Biological control
Gajanana, A.; et al., 1978, Indian J. Med. Research, v. 68, 242-247
Romanomermis sp., mass cultivation, screening for safety in laboratory animals, mosquito susceptibility studies, use in small scale field trial for mosquito control: paddy fields in Pondicherry
- Biological control
Gajanana, A.; et al., 1979, Indian J. Med. Research, v. 70, 417-423
partial suppression of Plasmodium gallinaceum and P. vivax in Aedes aegypti and Anopheles stephensi doubly infected with Nosema algerae and Plasmodium, epidemiological significance
- Biological control
Galloway, T. D.; and Brust, R. A., 1976, Manitoba Entom., v. 10, 18-25
Romanomermis culicivorax, field application for control of Aedes spp., poor results due primarily to low spring temperatures: Manitoba
- Biological control
Gaugler, R.; and Boush, G. M., 1978, J. Invert. Path., v. 32 (3), 291-296
Neoaplectana carpocapsae infective-stage juveniles, ultraviolet radiation and sunlight as factors limiting effectiveness as biological control agent, reduced pathogenicity and inhibition of nematode reproduction and development in Galleria mellonella larvae (exper.)
- Biological control
Gaugler, R.; and Boush, G. M., 1979, Environment. Entom., v. 8 (4), 658-660
Neoaplectana carpocapsae, no signs or symptoms of pathogenicity, toxicity, evidence of infection, or nematode-related histopathology in rats inoculated with infective-stage juveniles
- Biological control
Golini, V. I.; and Sherry, J. P., 1979, Tr. Am. Micr. Soc., v. 98 (4), 572-576
larvae of Chironomus plumosus parasitized by mermithid identified as very likely Octomermis itascensis with subsequent colonization by bacteria, fungi, and ciliated protozoa, role of parasites and saprophytic microorganisms in population control of chironomids and in decomposition of complex organic matter in benthic environment: Lake Ontario
- Biological control
Graber, M.; Euzéby, J.; and Gevrey, J., 1977, Bull. Soc. Sc. Vet. et Med. Comp. Lyon, v. 79 (2), 91-95
schistosomiasis vectors, Biomphalaria glabrata, predatory capability of American crayfish, Cambarus affinis
- Biological control
Graber, M.; Euzéby, J.; and Gevrey, J., 1977, Bull. Soc. Sc. Vet. et Med. Comp. Lyon, v. 79 (2), 97-99
schistosomiasis vectors, Biomphalaria glabrata, predation by American crayfish, Cambarus affinis, exerted principally during period from April to October
- Biological control
Guillet, P.; and de Barjac, H., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (6), 549-552
toxicity of Bacillus thuringiensis var. israelensis for Simulium vectors of onchocerciasis
- Biological control
Hembree, S. C., 1979, Mosquito News, v. 39 (3), 575-582
mosquito pathogens, survey: Thailand
- Biological control
Henry, J. E.; Oma, E. A.; and Onsager, J. A., 1978, J. Econom. Entom., v. 71 (4), 629-632
Nosema locustae spores for control of grasshoppers, 2 methods of application compared, application of spores on wheat bran was significantly better in reducing grasshopper densities than application in ultra low volume aqueous spray
- Biological control
Hewitt, P. H.; and Kok, D. J., 1979, J. Entom. Soc. South. Africa, v. 42 (1), 51-54
mermithids in Aedes caballus, sex of parasite, host fecundity, possible biological control: near Bloemfontein, Orange Free State
- Biological control
Higby, G. C.; et al., 1979, Parasitology, v. 78 (2), 155-170
Nosema eurytremae derived from trematode larvae, propagation in abnormal (insect) hosts and in tissue culture
- Biological control
Hill, R. E.; and Gary, W. J., 1979, Environment. Entom., v. 8 (1), 91-95
Nosema pyrausta in field populations of Ostrinia nubilalis, incidence and development: Nebraska
- Biological control
Hope Cawdery, M. J.; and Lindsey, W., 1977, Proc. Seminar Biol. Control (Dublin, Feb. 17-18), 161-169
Fasciola hepatica, decline of fluke and Lymnaea truncatula populations on reclaimed western blanket peat, possible relationship to predation by Hydromya dorsalis: Co. Mayo, Ireland
- Biological control
Ignoffo, C. M.; and Garcia, C., 1979, J. Econom. Entom., v. 72 (5), 767-769
Agrotis ipsilon, susceptibility to Vairimorpha necatrix and other entomopathogens
- Biological control
Ishii, A.; et al., 1976, Snake, v. 8 (1), 64-68
Entamoeba invadens, oral inoculation of some amphibians and reptiles, possible biological control of the habu snake
- Biological control
Jaenson, T. G. T., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 234-238
Glossina pallidipes, virus-like rods associated with salivary gland hyperplasia, exceedingly heavy trypanosome infections found in some hyperplastic glands, unlikely that virus-like particles can be used as biological control agents if they are favoring development of trypanosomes

Biological control

- Jobin, W. R.; and Laracuente, A., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 916-917
Schistosoma mansoni, evaluation of *Marisa cornuarietis* for biological control of schistosome transmission in flowing water habitats with population of infected *Biomphalaria glabrata*, costs: Puerto Rico

Biological control

- Jordan, J. A.; and Noblet, R., 1978, Tech. Bull. (1069) South Carolina Agric. Exper. Station, 5 pp.
Nosema heliothidis and *Vairimorpha necatrix*, susceptibility of selected insect pests, spore dose levels necessary to obtain LD₅₀ in selected host age levels

Biological control

- Jouvenaz, D. P.; and Anthony, D. W., 1979, J. Protozool., v. 26 (3), 354-356
Mattesia geminata sp. n.-infected *Solenopsis geminata*, pathologic manifestations, biological control implications

Biological control

- Kamionek, M.; Sandner, H.; and Seryczynska, H., 1974, Acta Parasitol. Polon., v. 22 (22-34), 357-363
Neoplectana carpocapsae, greater mortality of insect hosts in presence of mixed fungal infections

Biological control

- Kamionek, M.; Sandner, H.; and Seryczynska, H., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (12), 791-793
Pristionchus uniformis in *Galleria mellonella* (exper.), shortening of lifetime, changes in hemolymph

Biological control

- Kaya, H. K., 1977, J. Invert. Path., v. 30 (2), 192-198
Vairimorpha necatrix (potential biological control agent), survival (infectivity) of spores exposed to sunlight, ultraviolet radiation, and high temperature, laboratory and field tests

Biological control

- Kaya, H. K., 1978, J. Invert. Path., v. 31 (3), 358-364
Neoplectana carpocapsae adversely affects *Apanteles militaris* when the nematode invades *Pseudaletia unipuncta* before the parasitoids complete their development and are ready to emerge from the host, possible implications for use of *N. carpocapsae* as biological control agent of *P. unipuncta*

Biological control

- Kaya, H. K.; and Brayton, M. A., 1978, J. Nematol., v. 10 (4), 350-354
Neoplectana carpocapsae, development and reproduction in healthy and virus-infected *Pseudaletia unipuncta*; confirmation of presence of virus in intestine of nematodes, possibly useful in pest-management systems

Biological control

- Kaya, H. K.; and Moon, R. G., 1978, J. Nematol., v. 10 (4), 333-341
Heterotylenchus autumnalis in *Musca autumnalis*, occurrence, within-pasture distribution of nematode and its host, frequency of nematodes within male and female hosts, effects of nematode on host (sterility, differential feeding behavior of infected and uninfected females of different age classes), seasonal population dynamics of nematode and host: northern California

Biological control

- Khaliulin, G. L., 1973, Parazitologiya, Leningrad, v. 7 (4), 370-373
Thelohania spp. in *Aedes* spp. larvae, infection rate under natural conditions and in tests with transovarial transmission did not exceed 2%, infection rate in tests with transmission per os reached 50%: USSR

Biological control

- Kilochitskii, P. Ia.; and Bryginskii, S. A., 1979, Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool. (6), 87
Laakesteria culicis as possible factor regulating mosquito populations: Ukraine

Biological control

- Koval, Iu. V., 1977, Vestnik Sel'skokhoz. Nauki (252) (9), 38-44
 mermithid parasites of Colorado potato beetle, prevalence, life cycles in relation to host development, potential as biological control: Chernovitskaia region, Ukraine

Biological control

- Kozlov, V. I., 1970, Parazitologiya, Leningrad, v. 4 (4), 363-364
Dermanyssus gallinae eggs, nymphs, and adults are preyed upon by *Alphitobius diaperinus*, thus reducing mass reproduction of this parasite in poultry yards

Biological control

- Krafsur, E. S., 1978, Proc. Entom. Soc. Wash., v. 80 (2), 164-170
Cochliomyia hominivorax, aggregations of male flies, efficiency of sterile male release method will be enhanced by maximizing the chances of putting sterile screwworms into actual or potential breeding sites

Biological control

- Krafsur, E. S.; and Garcia, L., 1978, J. Med. Entom., v. 14 (6), 687-697
Cochliomyia hominivorax, comparison of 2 sterile male release methods, small dosage/narrow lane distribution appears to be more effective than large dosage/wide lane distribution; epidemiology of 1976 epizootic: south Texas

Biological control

- Krafsur, E. S.; and Hightower, B. G., 1979, J. Med. Entom., v. 16 (1), 33-42
Cochliomyia hominivorax, field tests of sterile males against natural populations, population dynamics, responses of previously challenged and unchallenged populations, comparison of 2 released strains: coastal areas of Mexico

Biological control

- Kumar, R.; and Lloyd, J. E., 1976, Range Sc. Dept. Sc. Ser. (18), Colorado State Univ., 33 pp.
 arthropods associated with dung, bibliography

- Biological control
Kurihara, T., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (1), 8-16
Reesimermis nielsenii, attraction of infective stage to *Culex pipiens molestus* larvae, laboratory conditions
- Biological control
Kurihara, T.; and Hata, K., 1979, Eisei Dobutsu (Japan. J. San. Zool.), v. 30 (2), 200-202
Romanomermis culicivorax, susceptibility of 5 mosquito species to infection, relationship of nematode release point and dispersal to host parasitism
- Biological control
LaChance, L. E.; and Ruud, R. L., 1977, J. Econom. Entom., v. 70 (4), 501-504
Cochliomyia hominivorax, cytological separation and identification of native vs. factory-reared irradiated released male flies captured in field traps, method is rapid, accurate, and simple enough for use in field laboratories
- Biological control
Laracuente, A.; Brown, R. A.; and Jobin, W., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 99-105
Schistosoma mansoni, evaluation of 4 species of aquatic snails as decoys to intercept miracidia, laboratory and field trials: Puerto Rico
- Biological control
Legner, E. F., 1978, Proc. and Papers 46. Ann. Conf. Calif. Mosquito and Vector Control Ass. (Yosemite, California, Jan. 29-Feb. 1), 77-79
Haematobia irritans, biological control by introduced Heterotylenchus autumnalis and natural enemies, 1968-1974: California
- Biological control
Levchenko, N. G.; Tokarev, G. G.; and Grinin, V. S., 1974, Parazitologiya, Leningrad, v. 8 (6), 543-547
Plistophora tabani sp. n. in Tabanus sp., pathogenicity
- Biological control
Levy, R.; et al., 1979, Mosquito News, v. 39 (1), 20-25
Romanomermis culicivorax, aerial application as effective means of disseminating preparasites in mosquito control operations: southwest Florida
- Biological control
Levy, R.; Cornell, J. A.; and Miller, T. W., jr., 1977, Mosquito News, v. 37 (3), 512-516
Romanomermis culicivorax, Simplex low profile aerial spray system as effective means of disseminating preparasitic stage for mosquito control
- Biological control
Levy, R.; and Miller, T. W., jr., 1977, Mosquito News, v. 37 (3), 410-414
Romanomermis culicivorax as biological control agent of *Culex quinquefasciatus*, polluted water had little or no adverse effect on viability, infectivity, or development of nematode: Sanibel Island, Lee County, Florida
- Biological control
Levy, R.; and Miller, T. W., jr., 1977, Mosquito News, v. 37 (3), 483-486
Romanomermis culicivorax, experimental release for evaluation as biological control agent of mosquitoes breeding in grassy field: Lee County, southwest Florida
- Biological control
Lewis, L. C.; and Lynch, R. E., 1978, Entomophaga, v. 23 (1), 83-88
Nosema pyrausta, foliar application for suppression of European corn borer (*Ostrinia nubilalis*)
- Biological control
Lewis, L. C.; and Raun, E. S., 1978, Iowa State J. Research, v. 52 (4), 391-396
Neoplectana carpocapsae, DD-136 strain, potential as a control for all developmental stages of *Ostrinia nubilalis* except the egg, laboratory and field evaluation
- Biological control
Lim, H. K., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 450-451
Daubaylia malayanum n. sp. in Biomphalaria glabrata (sinuses around esophagus, within neck-head area, sinuses around rectal ridge) (exper.), no marked difference in mortality rates between infected and non-infected snails
- Biological control
Lipa, J. J.; Pruszyński, S.; and Bartkowski, J., 1975, Acta Parasitol. Polon., v. 23 (41-51), 453-461
role of pathogens and parasites in survival of Coccinellidae spp. during winter: Poland
- Biological control
Lublinkhof, J.; Lewis, L. C.; and Berry, E. C., 1979, J. Econom. Entom., v. 72 (6), 880-883
Nosema pyrausta integrated with insecticides for control of *Ostrinia nubilalis*, European corn borer
- Biological control
Maddox, J. V.; et al., 1977, Pakistan J. Zool., v. 9 (1), 19-22
Nosema algerae, differences in susceptibility of Pakistan mosquitoes, potential as biological control agent
- Biological control
Madsen, H., 1979, Hydrobiologia, v. 66 (2), 181-192
Schistosoma mansoni, interspecific competition between Helisoma duryi and intermediate hosts Biomphalaria alexandrina or B. camerunensis
- Biological control
Madsen, H., 1979, Hydrobiologia, v. 67 (3), 207-214
biological control of Biomphalaria camerunensis vector snails by introduction of competitor snail Helisoma duryi, role of conditioning and mechanical interference with egg masses and juveniles in this competitive relationship
- Biological control
Mathur, S. B.; Srivastava, R. P.; and Srivastava, K. L., 1971, Proc. National Acad. Sc., India, sec. B., v. 41 (4), 325-327
Neoplectana sp. (DD-136), pathogenicity to insect crop pests, potential as biological control agent

Biological control

- Medina, F. R.; and Woodbury, R., 1979, J. Agric. Univ. Puerto Rico, v. 63 (3), 366-376
 Lymnaea spp., molluscicidal assay of 200 Puerto Rican terrestrial plants, possible use in biological control of snail vectors of fascioliasis hepatica

Biological control

- Megaw, M. W. J., 1978, Nature, London (5644), v. 271, 483-484
 Boophilus microplus, virus-like particles pathogenic to tick salivary glands, viruses pathogenic to ticks could have potential as biological control agents

Biological control

- Menapage, D. M.; Sackett, R. R.; and Wilson, W. T., 1978, J. Econom. Entom., v. 71 (2), 304-306
 Nosema locustae, adult Apis mellifera not susceptible, safe to use Nosema locustae in biological control of pest insects

Biological control

- Menon, P. K. B.; and Rajagopalan, P. K., 1978, Indian J. Med. Research, v. 68, 927-933
 mosquito control in wells using Gambusia affinis and Aplocheilus blochii: Pondicherry town

Biological control

- Metspalu, L., 1976, Eesti NSV Teaduste Akad. Toimetised, Biol., v. 25 (1), 13-19
 Plistophora schubergi, effect of microsporidiosis on development of diapause in noctuids, biological control

Biological control

- Miller, J. A.; et al., 1977, J. Econom. Entom., v. 70 (4), 417-423
 Haematobia irritans, evaluation of effectiveness of methoprene in drinking water of cattle to suppress hornfly populations preparatory to release of sterile male flies: island of Molokai, Hawaii

Biological control

- Milstead, J. E., 1979, J. Invert. Path., v. 33 (3), 324-327
 Heterorhabditis bacteriophora as vector for introducing its associated bacterium into hemocoel of Galleria mellonella larvae

Biological control

- Milward-de-Andrade, R., 1978, Rev. Brasil. Biol., v. 38 (4), 787-800
 Biomphalaria glabrata, Helisoma duryi, competition under laboratory conditions

Biological control

- Milward-de Andrade, R.; and Carvalho, O. dos S., 1979, Rev. Saude Pub., S. Paulo, v. 13 (2), 92-107
 Schistosoma mansoni, exper. biological control of Biomphalaria vectors in endemic area by introducing Pomacea haustum predators into brooks and ditches: Baldim, MG (Brasil)

Biological control

- Milward-de-Andrade, R.; Carvalho, O. dos S.; and Guimaraes, C. T., 1978, Rev. Saude Pub., S. Paulo, v. 12 (1), 78-89
 possible use of the mollusk Pomacea haustum for biological control of snail vectors of human schistosomiasis, field and laboratory studies show Pomacea to be a predator and competitor of the vector snails: Brazil

Biological control

- Mitchell, C. J.; Chen, P. S.; and Chapman, H. C., 1974, Taiwan Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (5), 241-254
 Reesimermis nielsenii, field and laboratory trials testing nematode as biological control agent of Culex mosquitoes, host susceptibility, possible predation of nematode by ostracod, Cyprinotus dentatis, which is locally abundant in rice paddies of Taiwan

Biological control

- Miyashita, M.; et al., 1977, Eisei Dobutsu (Japan. J. San. Zool.), v. 28 (3), 291-300
 schistosomiasis, control of snail vectors by tropical fish

Biological control

- Montesinos, H. J.; and Rabinovich, J. E., 1979, Entomophaga, v. 24 (2), 177-183
 Telenomus fariai, parasite of Chagas' disease vectors, population dynamics, laboratory conditions

Biological control

- Mougeot, G.; Golvan, Y. J.; and Depernet, D., 1977, Bull. Soc. Sc. Vet. et Med. Comp. Lyon, v. 79 (3), 151-156
 Schistosoma mansoni and Angiostrongylus cantonensis in Biomphalaria glabrata (exper.), interaction, effect on cercarial emission as related to timing of infections

Biological control

- Mussgnug, G. L.; and Henry, J. E., 1979, Acrida, v. 8 (2), 77-81
 Nosema locustae, compatibility with malathion for term control of Melanoplus sanguinipes

Biological control

- Nassi, H., 1978, Acta Trop., v. 35 (1), 41-56
 Ribeiroia marini guadeloupensis n. ssp., life cycle, sterilization of Biomphalaria glabrata (vector of schistosomiasis), method for producing large quantities of trematode eggs with view to eventual control of snail populations: Guadeloupe

Biological control

- Nassi, H.; Pointier, J. P.; and Golvan, Y. J., 1979, Ann. Parasitol., v. 54 (2), 185-192
 Biomphalaria glabrata, biological control using Ribeiroia marini guadeloupensis (an autochthonous trematode which sterilizes this snail vector of Schistosoma mansoni), field trial: Guadeloupe

Biological control

- Palmieri, J. R.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 256-259
 Nosema spp., experimental infections in Lymnaea rubiginosa, Fasciola gigantica, Echinostoma audyi, and Tracheophilus sp.

Biological control

- Perlowagora-Szumlewicz, A.; and Correia, M. V., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (6), 360-371
 Chagas disease, hybridization experiments with triatomine vectors, sterile males produced, genetic mechanisms, possible control method

- Biological control**
 Perlowagora-Szumlewicz, A.; Petana, W. B.; and Figueiredo, M. J., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (2), 97-102
Trypanosoma cruzi, effects of juvenile hormone analogues on developmental changes in *Panstrongylus megistus* vector triatomines, juvenilized bugs less susceptible to natural gut infection, potential for biological control
- Biological control**
 Petersen, J. J., 1977, J. Invert. Path., v. 30 (2), 155-159
Octomyomermis muspratti (=Reesimermis muspratti), possible biological control agent, preliminary studies on development of in vivo mass-rearing system
- Biological control**
 Petersen, J. J., 1978, J. Invert. Path., v. 31 (1), 103-105
Octomyomermis muspratti, effects of male/female ratios on mating and egg production, application of these findings may help obtain maximum laboratory production of this potential biocontrol agent of mosquitoes
- Biological control**
 Petersen, J. J., 1978, Mosquito News, v. 38 (1), 83-86
*Romanomermis culicivora*x, laboratory mass production for biological control, effects of host-parasite ratios and flooding patterns upon level of parasitism and total yield
- Biological control**
 Petersen, J. J., 1979, Southwest. Entom., v. 4 (1), 65-69
*Romanomermis culicivora*x, longevity of laboratory cultures extended by low temperatures, mass rearing techniques
- Biological control**
 Petersen, J. J.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1268-1273
*Romanomermis culicivora*x, application to mosquito breeding areas to control *Anopheles albimanus* and *An. p. pseudopunctipennis*: El Salvador
- Biological control**
 Petersen, J. J.; and Chapman, H. C., 1970, Mosquito News, v. 30 (3), 420-424
Gastromermis sp. in anopheline larvae, parasite sex ratio, life cycle, value as possible biological control agent: southwestern Louisiana
- Biological control**
 Petersen, J. J.; and Chapman, H. C., 1979, J. Med. Entom., v. 15 (5-6), 468-471
 checklist of mosquito species tested against *Romanomermis culicivora*x, natural infections, laboratory or field exposure, susceptibility index, and source references
- Biological control**
 Petersen, J. J.; Willis, O. R.; and Chapman, H. C., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1265-1267
*Romanomermis culicivora*x, mass production
- Biological control**
 Pinchin, R.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 322-323 [Letter]
 Chagas' disease, slow-release juvenile hormone formulations for control of triatomine vectors
- Biological control**
 Pinchin, R.; et al., 1978, J. Econom. Entom., v. 71 (6), 950-955
Trypanosoma cruzi, 40 compounds bioassayed for juvenile hormone activity on *Panstrongylus megistus*
- Biological control**
 Platzer, E. G.; and MacKenzie-Graham, L. L., 1978, Proc. and Papers 46. Ann. Conf. Calif. Mosquito and Vector Control Ass. (Yosemite, California, Jan. 29-Feb. 1), 93
*Romanomermis culicivora*x, aquatic arthropod predators of preparasitic and postparasitic stages, potential problem in using nematode for mosquito control
- Biological control**
 Poinar, G. O., jr., 1977, Canad. J. Zool., v. 55 (9), 1475-1479
Empidomermis cozii n. gen., n. sp., life cycle, parasitized adult female *Anopheles funestus* were sterilized and died soon after nematodes emerged
- Biological control**
 Poinar, G. O., jr., 1978, Nematologica, v. 24 (1), 105-114
Neoaplectana glaseri, emended description, generation polymorphism (larger first generation, smaller second generation); symbiotic bacterium in nematode released into insect haemocoel, probably aids in nematode nutrition and development; rediscovery of xenic population indicates that nematode species is native to North America not introduced with Japanese beetle; possible use for pest control renewed
- Biological control**
 Poinar, G. O., jr.; et al., 1979, J. Parasitol., v. 65 (4), 613-615
*Romanomermis culicivora*x, laboratory infection of Simuliidae and Chironomidae, host response, extent of parasite development
- Biological control**
 Poinar, G. O., jr.; and Bai, G., 1979, Indian J. Nematol., v. 9 (1), 1-4
Panagrolaimus migophilus sp. n., parasitic in *Musca domestica*: Bangalore, India
- Biological control**
 Poinar, G. O., jr.; and Brooks, W. M., 1977, IRCS J. Med. Sc., v. 5 (10), 473
Neoaplectana glaseri, xenic field population recovered from parasitized larvae of the spring rose beetle; life cycle, morphometric study, may be useful as biologic control agent for insect pests living in soil
- Biological control**
 Poinar, G. O., jr.; and Hess, R., 1979, Nematologica, v. 25 (3), 368-372
Mesomermis paradisi in blackflies, biological control
- Biological control**
 Poinar, G. O., jr.; and Ono, H., 1979, Eisei Dobutsu (Japan. J. San. Zool.), v. 30 (2), 194
Mermithidae [sp.] parasitizing *Simulium tobetsuense* and *S. aokii*: Pankechin River, Otofuke, Hokkaido, Japan

Biological control

- Pye, A. E.; and Burman, M., 1977, Suomen Hyonteistieteellinen Aikakauskirja (Ann. Entom. Fennici), v. 43 (4), 115-119
Neoplectana carpocapsae in *Hylobius abietis* (exper.) (haemocoele), pathogenicity, possible use in biological control

Biological control

- Pye, A. E.; and Burman, M., 1978, Exper. Parasitol., v. 46 (1), 1-11
Neoplectana carpocapsae (potential biological control agent) in *Hylobius abietis*: dose-mortality and concentration-mortality studies, nematode dispersal, invasion route, host mortality in relation to temperature and to insect stage and condition; nematode reproduction, optimal temperature

Biological control

- Rajasekariah, G. R., 1978, Experientia, v. 34 (11), 1458-1459
Fasciola hepatica, ingestion of cercariae by *Chaetogaster limnaei* (an annelid ectocommensal on *Lymnaea tomentosa*, the intermediate host of the liver fluke), possible exploitation as biological control measure

Biological control

- Rao, U. S. B.; Gajana, A.; and Rajagopalan, P. K., 1979, Indian J. Med. Research, v. 69, 423-427
Romanomermis sp., tolerance of preparasitic nemas and adults to different pH and salinity, laboratory and field trials, limited utility as biological agent in polluted water

Biological control

- Rawlins, S. C.; Jurd, L.; and Snow, J. W., 1979, J. Econom. Entom., v. 72 (5), 674-677
Cochliomyia hominivorax, antifertility effects of benzylphenols and benzyl-1,3-benzodioxoles

Biological control

- Richardson, P. N.; and Chanter, D. O., 1979, Ann. Applied Biol., v. 93 (1), 1-11
Howardula husseyi-infected vs. uninfected *Megaselia halterata*, longevity, dissemination of nematodes by parasitized female flies, statistical models, potential biological control agent

Biological control

- Rondelaud, D., 1978, Ann. Parasitol., v. 53 (1), 63-74
Fasciola hepatica-infected or non-infected *Lymnaea truncatula*, disturbance of daily rhythm of behavior in presence of predators

Biological control

- Rondelaud, D., 1978, Ann. Parasitol., v. 53 (5), 511-518
 advantages of an association of predatory snails (*Physa acuta* with *Zonitidae*) in biological control of *Lymnaea truncatula*

Biological control

- Rondelaud, D., 1978, Ann. Parasitol., v. 53 (6), 623-630
Fasciola hepatica, *Lymnaea glabra*, *L. truncatula*, and *L. palustris* found in malacological survey of water-cress pools responsible for human cases of fascioliasis, exper. infections show that *L. glabra* as well as *L. truncatula* can serve as vector, biological control by introduction of predatory snail *Zonitoides nitidus*: Limousin

Biological control

- Rondelaud, D., 1978, Ann. Parasitol., v. 53 (2), 215-222
 long-term results of biological control of *Lymnaea truncatula* by predation of *Zonitidae* snails, population dynamics of several species of snails in two types of habitats

Biological control

- Rondelaud, D., 1979, Rev. Med. Vet., Toulouse, v. 130 (1), 101-110
 use of predatory *Zonitidae* molluscs to control vector *Lymnaea truncatula*: Haute-Vienne, France

Biological control

- Rondelaud, D.; and Barthe, D., [1979], J. Parasitol., v. 64 (6), 1978, 1130-1131
Fasciola hepatica, presence of erratic cercariae in lumina of digestive gland of *Zonitoides* snails preying on infested *Lymnaea truncatula*, lack of infestation in *Zonitoides* after ingesting prey makes it suitable for biological control

Biological control

- Saftoiu, A.; and Caloianu-Iordache, M., 1978, Trav. Mus. Hist. Nat. "Gr. Antipa", Bucuresti, v. 19, 83-87
Nosema lymantriae in *Lymantria dispar*, ultrastructural data on intracellular development, possible method of penetration into host cell nucleus, potential of parasite in control of forest pests

Biological control

- Sankurathri, C. S.; and Holmes, J. C., 1976, Canad. J. Zool., v. 54 (10), 1742-1753
 parasites and commensals (*Oligochaeta* and larval *Digenea*) of *Physa gyrina* in control area vs. area affected by thermal effluents, prevalence, seasonal changes, interactions (including ingestion of cercariae by oligochete), ecological model: Lake Wabamun, Alberta

Biological control

- Schmidt, J.; and All, J. N., 1978, Environment. Entom., v. 7 (4), 605-607
Neoplectana carpocapsae dauerlarvae, attraction to various insect larvae appears to be chemical in nature, response to larvae of *Galleria mellonella* is a function of distance

Biological control

- Screwworm Problem, Evolution Resistance Biol. Control, 1978, 151 pp., illus.
 screwworm, biological control, collection of symposium papers

Biological control

- Seawright, J. A.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 155-160
Anopheles albimanus, computer simulation of effectiveness of releasing male-linked translocation heterozygotes as control measure, malaria sub routine included in model

- Biological control
Seryczynska, H., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (11), 749-751
Neoplectana carpocapsae, defensive reactions of *Galleria mellonella* caterpillars to effect of nematodes and herbicides, or to both factors jointly
- Biological control
Seryczynska, H., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (2), 99-101
Neoplectana carpocapsae, Colorado beetle (*Leptinotarsa decemlineata*), combined use of tribunil with nematode infection, pathological changes
- Biological control
Shapas, T. J.; Burkholder, W. E.; and Boush, G. M., 1977, J. Econom. Entom., v. 70 (4), 469-474
Mattesia trogodermae in biological control of *Trogoderma glabrum*, dissemination of protozoan pathogen by pheromone-baited spore-transfer sites
- Biological control
Sharavina, N. P., 1978, Zool. Zhurnal, v. 57 (10), 1571-1573
Ascaris suum eggs eaten and digested by ciliates, possible role in water purification
- Biological control
Shepherd, R. C. H.; and Edmonds, J. W., 1978, J. Hyg., Cambridge, v. 81 (3), 399-403
changes in epidemiology of myxomatosis following introduction of *Spilopsyllus cuniculi*: Pine Plains, Mallee region, Victoria
- Biological control
Shigin, A. A.; and Gorovaia, T. V., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 232-240
Diplostomum spathaceum cercariae, measurement of elimination by cladoceran *Moina macrocopa* and estimation of its role in regulating numbers of cercariae
- Biological control
Simchuk, P. A.; and Sikura, A. I., 1978, Entom. Obozr., v. 57 (3), 495-499
Nosema carpocapsae, importance in regulating populations of *Laspeyresia pomonella*: Moldavia; Ukraine; Belorussia; RSFSR
- Biological control
Singh, S. P., 1977, Current Sc., Bangalore, v. 46 (13), 454-455 [Letter]
Neoplectana sp., pathogenicity tests in potato cutworms: Jullundur (Punjab)
- Biological control
Smirnov, O. V., 1978, Entom. Obozr., v. 57 (3), 687-693
entomopathogens, including Microsporidia and Nematoda, interactions in mixed infections in one insect organism. review
- Biological control
Tarrant, C. A.; and Cupp, E. W., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 666-668
morphogenetic effects of precocene II on immature stages of *Rhodnius prolixus*
- Biological control
Thompson, K. C.; Roa E., J.; and Romero N., T., 1978, Trop. Animal Health and Prod., v. 10 (3), 179-182
Boophilus microplus, 6 grass species analysed for anti-tick deterrent properties
- Biological control
Tonkonozhenko, A. P.; et al., 1977, Veterinariia, Moskva (6), 41-42
[Wohlfahrtia] myiasis, sheep, treatment with Bac[illus] thuringiensis exotoxin as dust
- Biological control
Torii, T., 1975, JIBP Synthesis, v. 7, 87-88
Neoplectana carpocapsae, DD-136 strain and associated bacterium as biological control agents against rice stem-borers
- Biological control
Veremchuk, G. V., 1972, Parazitologiya, Leningrad, v. 6 (4), 376-380
Neoplectana carpocapsae agriotos, mass rearing techniques
- Biological control
Veremchuk, G. V., 1974, Parazitologiya, Leningrad, v. 8 (5), 402-407
Neoplectana carpocapsae agriotos, host and environmental factors limiting infection of insects
- Biological control
Washino, R. K.; and Fukushima, C. K., 1978, Proc. and Papers 46. Ann. Conf. Calif. Mosquito and Vector Control Ass. (Yosemite, California, Jan. 29-Feb. 1), 89
Romanomeris culicivora assessed with other biological control agents against mosquito and gnat larvae: northern California
- Biological control
Willomitzer, J.; and Rozkosny, R., 1977, Acta Vet. Brno, v. 46 (3-4), 315-322
Stagnicola palustris, *Lymnaea tomentosa*, laboratory rearing of *Dictya umbrarum* for control of intermediate host snails
- Biological control
Wilson, G. G., 1977, Canad. J. Zool., v. 55 (1), 249-250
Nosema fumiferanae, feeding additional microsporidian spores to naturally infected *Choristoneura fumiferana* enhances adverse effects
- Biological control
Wilson, G. G., 1978, Canad. J. Zool., v. 56 (4), 578-580
feeding of *Pleistophora schubergi* to *Choristoneura fumiferana* naturally infected with *Nosema fumiferanae* results in greater adverse effects on budworms than either parasite alone, may play useful role in biological control
- Biological control
Wilson, G. G., 1978, Bi-Month. Research Notes Canad. Forestry Serv., v. 34 (3), 16
Nosema fumiferanae, *Pleistophora schubergi*, incidence of infection in spruce budworm (*Choristoneura fumiferana*) 1 and 2 years after application of microsporidian spores to trees: Ontario
- Biological control
Wilson, G. G.; and Kaupp, W. J., 1976, Insect Path. Research Inst., Inform. Rep. (IP-X-15), 14 pp.
Nosema fumiferanae, *Pleistophora schubergi*, control of *Choristoneura fumiferana* by spraying spruce and balsam fir trees with spores: Ontario

Biological control

Winner, R. A.; Steelman, C. D.; and Schilling, P. E., 1978, Mosquito News, v. 38 (4), 546-553
Romanomermis culicivora, effects of selected insecticides on preparasitic, parasitic, and postparasitic stages and eggs, data indicate that *R. culicivora* could be used in an integrated mosquito control program provided application of insecticides was carefully monitored

Biological control

Woodward [i.e. Woodard], D. E., 1978, Mosquito News, v. 38 (1), 80-83
Diximermis peterseni, laboratory reared, successfully established in field populations of *Anopheles*, continuous introduction of nematode not required to maintain infections, seasonal variation of parasite activity: southwest Louisiana

Biological tags. See Tagging.Biometrics. See Technique. Statistical methods.Bionomics. See Ecology.Black Sea. See Seas, Black Sea.Bladder. See Urine and urinary tract.Blindness. See Eye.Blood. [See also Anemia; Cardiovascular system; Disease transmission, Blood; Eosinophilia; Hemoglobin; Hemorrhage]

Blood

Akahane, H., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (6), 340-346
Fasciola sp., rabbits, acute and chronic phases of infection, hematological changes

Blood

Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 161-175
Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to moderate primary infection, concluded that genetic resistance operated primarily against worm establishment and was probably controlled by the immune response elicited, in heavy infections there was no correlation between worm establishment and haemoglobin type

Blood

Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 177-187
Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to re-infection (either after primary infection was terminated with anthelmintic or challenge superimposed on existing adult infection), patterns of worm establishment and disease indicated that genetic factors operated in determining resistance, breed but not haemoglobin type appeared to be of some significance in 'self-cure'

Blood

Aminzhanov, M., 1977, Veterinariia, Moskva (12), 86-88
 echinococcosis, sheep, hematological changes, relationship to stage of parasite development, number of reinfections, and duration of infection

Blood

Anosa, V. O., 1977, Trop. Animal Health and Prod., v. 9 (1), 11-17
Haemonchus contortus outbreak, Nigerian dwarf ewes and lambs, haematological observations before and after treatment with thia-bendazole: Nigeria

Blood

Anosa, V. O., 1978, Vet. Parasitol., v. 4 (2), 103-109
 seasonal variations in blood picture of white Fulani calves naturally exposed to helminthiasis, effect of pyrantel tartarate treatment, results indicate that low hematological values in African cattle are not inherited characteristic but are rather due to seasonal effects of parasitism and nutrition inherent in indigenous husbandry practices

Blood

Ansari, M. Z.; Singh, (Kr.) S.; and Iyer, P. K. R., 1978, Indian J. Animal Sc., v. 48 (2), 103-107
Gaigeria pachyscelis, sheep, goats (exper. in all), clinical signs, haematological picture, cause of death

Blood

Areekul, S., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (3), 438-443
 malaria, humans and monkeys (exper.), bleeding diathesis

Blood

Areekul, S.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 67-72
Fasciolopsis buski, schoolchildren, serum vitamin B12, serum and red cell folate, serum vitamin B12 and serum folate binding proteins, vitamin B12 absorption

Blood

Asch, H. L., 1976, Rice Univ. Studies, v. 62 (4), 35-42
Schistosoma mansoni, free amino acid pools of adult male and female worms and worm pairs and of host (mouse) hepatic portal plasma

Blood

Asi, T., 1978, Vet. Fak. Dergisi, Istanbul Univ., v. 4 (2), 9-13
 tick-infested bulls, hemoglobin, bilirubin, and transaminase values

Blood

Au, A. C. S.; and Ko, R. C., 1979, Ztschr. Parasitenk., v. 58 (3), 233-242
Angiostrongylus cantonensis, rats, small primary infection followed by challenge infection at various periods, worm burden, haematological and serological response

Blood

Augustine, P. C.; and Thomas, O. P., 1979, Avian Dis., v. 23 (4), 854-862
Eimeria meleagridis, turkeys (exper.), reduced feed consumption and weight gains, blood and organ changes

Blood

Autuori, M. J., 1979, Experientia, v. 35 (12), 1579-1580
Plasmodium berghei-infected mice, relationship between host erythrocyte mean cytoplasmic protein concentration, reticulocyte response, and percent parasitemia

Blood

- Bansal, S. R.; and Pathak, R. C., 1974, U. P. Vet. J., v. 2 (4), 141-144
Trypanosoma evansi, buffaloes (exper.), course of disease, symptoms, haematological values, gel precipitin tests; serological test necessary follow-up for negative blood smear

Blood

- Barriga, O. O.; and Arnoni, J. V., 1979, Exper. Parasitol., v. 48 (3), 407-414
Eimeria stiedae in *Oryctolagus cuniculus*, pathological effects produced by graded infections: body weight, oocyst output, serum glutamic pyruvic and serum oxalacetic transaminases, bilirubinemia, lipemia, glycemia, proteinemia, mortality, carcass and liver weights

Blood

- Behmer, O. A., 1973, Rev. Hosp. Clin., S. Paulo, v. 28 (4), 212-221
Schistosoma mansoni, human, determination of elastase in blood platelets and the role of elastase in granuloma formation in lungs

Blood

- Beier, T. V.; and Sidorenko, N. V., 1972, Parazitologiya, Leningrad, v. 6 (4), 385-390
 haemogregarine-infected erythrocytes of *Lacerta armeniaca* and *L. saxicola nairensis*, changes in hemoglobin and total protein content

Blood

- Berry, C. I.; and Dargie, J. D., 1978, Vet. Parasitol., v. 4 (4), 327-339
Fasciola hepatica, sheep (exper.), pathophysiology: influence of dietary protein and iron on erythrokinetics

Blood

- Bezubik, B.; Sinski, E.; and Wedrychowiec, H., 1975, Acta Parasitol. Polon., v. 23 (1-11), 183-194
Ostertagia circumcincta, lambs, single infection of 50,000 or 400,000 larvae, clinical and haematological changes

Blood

- Bezubik, B.; Wedrychowiec, H.; and Sinski, E., 1977, Acta Parasitol. Polon., v. 25 (1-10), 79-90
Ostertagia circumcincta, sheep infected with larvae stored at low temperature, pathophysiological changes (body weight, blood picture, serum proteins), effectiveness of infection and percent of larvae inhibited in development

Blood

- Bhopale, M. K.; and Johri, G. N., 1979, J. Hyg., Epidemiol., Microbiol., and Immunol., v. 23 (1), 95-103
Ancylostoma caninum, mice (exper.), single and repeated exposures, serum protein patterns

Blood

- Bienze, U.; Guggenmoos-Holzmann, I.; and Luzatto, L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 619-621
 malaria, gene for erythrocyte glucose-6-phosphate dehydrogenase deficiency in heterozygous females confers advantage against malaria: Nigeria

Blood

- Blom, M.; Prag, J. B.; and Nørredam, K., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 76-83
 intestinal parasites, children from Vietnam-Cambodia at and after arrival in Denmark, α_1 -acid glycoprotein, α_1 -antitrypsin, and ceruloplasmin concentrations, eosinophilia, sedimentation rates, effect of T.A.B.-cholera vaccination

Blood

- Boreham, P. F. L.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 418-423
 incidence of multiple feeding by *Anopheles gambiae*; strong correlation between ahaemoglobinaemia and malaria infections in villagers: Barmawa, Garki District, Kano State, Nigeria

Blood

- Boreham, P. F. L.; and Parry, M. G., 1979, Advances Biosciences, v. 17, 85-92
Trypanosoma brucei, rabbits, role of urinary and plasma kallikreins in pathogenesis, immune complexes

Blood

- Borgsteede, F. H. M.; and Hendriks, J., 1979, Parasitology, v. 78 (3), 331-342
Cooperia oncophora, calves (exper.), single infections with 2 graded doses of larvae, weight gains, egg output, haematology, worm counts and host reaction against worm burden, worm measurements, distribution of worms in small intestine

Blood

- Boyer, J. M.; D'Antonio, L. E.; and Schiavone, W. A., 1979, Infect. and Immun., v. 25 (3), 805-809
Plasmodium berghei, isolation of lytic factor which induces hemolysis of erythrocytes of mice and hamsters, lipid composition, possible role in pathogenesis of malaria

Blood

- Camus, D.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 77-79
Schistosoma mansoni, differences in susceptibility to infection related to human blood types

Blood

- Caprarin, A.; and Purcherea, A., 1973, Lucrar. Stiint. Inst. Agron. N. Balcescu, s. C. Med. Vet., v. 15, 1972, 415-420
Ascaridia galli, chickens (exper.), hematologic observations

Blood

- Cechinel, Y. M. N.; and Owen, J. S., 1978, Rev. Brasil. Biol., v. 38 (2), 339-343
Schistosoma mansoni, patients with hepato-intestinal, compensated hepatosplenic, and decompensated hepatosplenic forms, plasma free cholesterol and cholesterol ester concentrations

Blood

- Coelho, L. C. B. B.; and Gillett, M. P. T., 1979, Biochem. Soc. Tr., v. 7 (5), 988-990
[Schistosoma] mansoni, human, hepatosplenic, effect of splenectomy on plasma phosphatidylcholine-cholesterol acyltransferase activity and on blood lipids

Blood

Commonwealth Institute of Helminthology,
[1980 ?], Annot. Bibliogr. (H54), 8 pp.
helminths and blood groups

Blood

Cook, R. M., 1979, Vet. Parasitol., v. 5 (2-3), 107-115

Trypanosoma brucei-infected rabbits, quantitation of acute phase serum protein Cx-reactive, effect of anti-inflammatory drug treatment

Blood

Coop, R. L.; Sykes, A. R.; and Angus, K. W., 1979, Vet. Parasitol., v. 5 (2-3), 261-269

Cooperia oncophora, calves given daily doses of larvae, faecal egg count, worm burden, liveweight gain and food intake, serum constituents, bone chemical analyses, intestinal pathology

Blood

Cornille-Brögger, R.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 173-183

malaria in normal subjects and those with sickle cell trait, determination of plasma immunoglobulins and antimalarial antibodies, findings suggest that during infancy early phagocytosis of parasitized cells led to enhanced processing of antigen and hence earlier immune response to sickle cell trait

Blood

Coudert, P.; Vaissaire, J.; and Licois, D., 1978, Rec. Med. Vet., v. 154 (5), 437-440
E[imeria] pellerdyi, E[imeria] intestinalis, young rabbits, hematological changes

Blood

Crompton, D. W. T.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 195-197

Nippostrongylus brasiliensis infections in protein-deficient rats have important effects on pathophysiological changes usually ascribed to nature of diet, significant hematologic differences and changes in protein distribution as compared to uninfected rats fed ad lib or pair-fed on same protein-deficient diet

Blood

Cuperlovic, K.; Altaif, K. I.; and Dargie, J. D., 1978, Research Vet. Sc., v. 25 (1), 125-126

sheep with hemoglobin AA showed better antibody response to some non-parasitic antigens than those with hemoglobin BB, results indicate that greater resistance of the former sheep to gastrointestinal nematodes is a reflection of superior immunological competence

Blood

Dargie, J. D.; et al., 1979, Research Vet. Sc., v. 26 (2), 245-247

Trypanosoma brucei, Ndama and Zebu cattle (exper.), blood volumes and erythrokinetics, susceptibility differences between breeds

Blood

Dey-Hazra, A.; et al., 1979, Vet. Parasitol., v. 5 (4), 339-351

Strongyloides ransomi-infected piglets, protein synthesis changes in liver, glutathione status of liver, electrolyte concentrations in plasma, erythrocytes, and in different organs, plasma enzyme activities

Blood

Dimitrov, G.; Kuncheva, K.; and Georgiev, B., 1978, Vet. Med. Nauki, v. 15 (6), 92-100
Fasciola hepatica, sheep (exper.) on diets with 2 different levels of protein content, serum protein levels, numbers of worms established and reaching maturity

Blood

Doenhoff, M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 260-273

Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-S. mansoni egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Blood

Dubey, J. P.; et al., 1979, Vet. Parasitol., v. 5 (4), 325-337

Paragonimus kellicotti, dogs (peritoneal cavity, pleural cavity, lungs) (exper.), migration and development, fecal diagnosis (sedimentation vs. McMaster technique), clinicopathological and hematologic data, radiologic findings, gross and microscopic pathology

Blood

Eckman, J. R.; et al., 1976, Tr. Ass. Am. Physicians, v. 89, 105-115

Plasmodium berghei-infected mice, vitamin E deficiency moderates severity of infections since premature oxidant-induced hemolysis of infected erythrocytes prevents orderly parasite maturation

Blood

El-Abdin, Y. Z.; Hamza, S. M.; and El Refaii, A. H., 1977, Egypt. J. Vet. Sc., v. 13 (2), 1976, 77-84

Theileria annulata, cattle, imidocarb dihydrochloride, serum enzyme activities and chemical constituents before and after treatment

Blood

Enigk, K.; and Dey-Hazra, A., 1978, Zentralbl. Vet.-Med., Reihe B, v. 25 (8), 613-622

roundworms, pigs (exper.), disaccharidase activity of gut mucosa, electrolyte content of plasma and various organs

Blood

Esuruoso, G. O., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 233-244

Trypanosoma vivax, Zebu vs. Muturu cattle (exper.), differences in innate resistance, comparison of haematological, clinical, and serological responses

Blood

Fabia, F.; et al., 1979, Ann. Parasitol., v. 54 (1), 1-10

Plasmodium chabaudi-infected mice, increase in sialic acids, neutral hexoses, and fucose on surface of red blood cells, coincides with reticulocytosis

- Blood**
 Facer, C. A.; and Brown, J., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 599-600 [Letter]
Plasmodium falciparum, no significant difference in frequency of ABO antigens between children with malaria and controls, confirms previous investigations: The Gambia
- Blood**
 Fain, A.; Vandepitte, J.; and Wery, M., 1974, Ann. Soc. Belge Med. Trop., v. 54 (2), 121-127
Onchocerca volvulus microfilaraemia discovered in 8 adult natives, microfilaraemia occurred in villages with highest microfilarial skin density, passage into blood thought related to skin allergy developing gradually
- Blood**
 Fayer, R.; and Lynch, G. P., 1979, Parasitology, v. 79 (3), 325-336
Sarcocystis cruzi-infected calves (exper.), pathophysiological changes in urine and blood, several specific effects beyond those induced by nutritional stress
- Blood**
 Forsberg, C. M.; et al., 1979, Vet. Path., v. 16 (2), 229-242
Trypanosoma congolense, calves, kinetics of blood coagulation
- Blood**
 Friedman, M. J., 1979, Nature, London (5719), v. 280, 245-247
Plasmodium falciparum, α - and β -thalassaemia trait red cells from adults, fetal red cells, and glucose-6-phosphate dehydrogenase deficiency red cells are refractory to parasite development because of oxidant sensitivity
- Blood**
 Friedman, M. J.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 777-780
Plasmodium falciparum, in vitro cultures, host cell competence of abnormal hemoglobin-containing erythrocytes, evolutionary significance of results
- Blood**
 Friedman, M. J.; et al., 1979, Exper. Parasitol., v. 47 (1), 73-80
Plasmodium falciparum, intraerythrocytic conditions in infected cells, changes which would alter sickling behavior of infected AS cells, potassium levels in sickled AS cells, effect of decreased potassium on parasite survival
- Blood**
 Furmaga, S.; and Gundlach, J. L., 1978, Acta Parasitol. Polon., v. 25 (11-20), 179-189
Fasciola hepatica-infected calves, parasitological findings, erythrocyte counts, packed cell volume, hemoglobin, transferin, iron, eosinophils, neutrophils, lymphocytes, total leukocytes, implications for etiology of anemia
- Blood**
 Furmaga, S.; Gundlach, J. L.; and Sobieszewski, K., 1974, Acta Parasitol. Polon., v. 22 (12-21), 229-247
Fasciola hepatica-infected and uninfected sheep treated and not treated with 3 fasciolicides (fasciolin, distolon, and zanil), blood serum levels of Ca, P, Na, K, and Mg
- Blood**
 Furmaga, S.; Gundlach, J. L.; and Sobieszewski, K., 1975, Acta Parasitol. Polon., v. 23 (1-11), 159-175
Fasciola hepatica-infected rabbits and sheep, white blood cell picture during course of infection
- Blood**
 Galhotra, A. P.; et al., 1979, Indian Vet. J., v. 56 (6), 466-469
Anaplasma marginale, splenectomized calves (exper.), blood proteins, bilirubin and icterus index, bone marrow changes
- Blood**
 Gillett, M. P. T.; and Carvalho, V. C., 1978, Exper. Parasitol., v. 44 (2), 173-180
Schistosoma mansoni, mice, humans, alterations of plasma and erythrocyte lipids associated with hepatosplenic schistosomiasis, differences between the two host species, possible applications
- Blood**
 Glickman, L. T.; Schantz, P. M.; and Cypess, R. H., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 254-258
Toxocara canis, patients with diagnostic ELISA titres vs. patients with presumed visceral larva migrans but less or no detectable antibody, clinical findings (including leucocytosis, eosinophilia, increased anti-A or anti-B isohaemagglutinin titre, elevated serum IgG level), epidemiological characteristics (age, sex, northern vs. southern residence, history of nica)
- Blood**
 Golinska, Z., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (12), 881-883
Trichinella spiralis, *T. pseudospiralis*, mice (exper.), percent composition of T and B lymphocytes in peripheral blood
- Blood**
 Goodger, B. V., 1977, Ztschr. Parasitenk., v. 53 (1), 47-52
Babesia argentina, acute cattle infection, cryofibrinogen complex in plasma contained proteins from erythrocytes and parasites plus fibrinogen and related proteins; analysis made using rabbit antisera against fractions of complex
- Blood**
 Goodger, B. V., 1978, Ztschr. Parasitenk., v. 55 (1), 1-8
Babesia bovis-infected splenectomized and intact calves, changes in fibrinogen, plasminogen, and IgG₂ in saline eluates from sucrose-washed erythrocytes and in plasma, relationship to coagulation, fibrinolysis, and blood agglutination
- Blood**
 Goodger, B. V.; et al., 1978, Ztschr. Parasitenk., v. 58 (1), 3-13
Babesia bovis (argentina)-infected calves, cryofibrinogen complex in plasma, characterization, contribution to pathophysiology

- Blood**
 Goodger, B. V.; and Wright, I. G., 1977, Ztschr. Parasitenk., v. 53 (1), 53-61
Babesia bigemina, acute cattle infection, plasma contains fibrin in monomer and high molecular weight forms, fibrin(ogen) degradation products not constantly detected, little or no evidence suggesting fibrinolysis or fibrin deposition; suggested that classic disseminated intravascular coagulation not present in *B. bigemina* infection
- Blood**
 Goodger, B. V.; and Wright, I. G., 1977, Ztschr. Parasitenk., v. 54 (1), 9-27
Babesia bovis-infected cattle, altered and activated coagulation system, coagulation parameters, fibrinogen catabolism, and fibrinolysis in intact and splenectomized cattle
- Blood**
 Gorenflot, A.; et al., 1978, Ann. Pharm. Franc., v. 36 (5-6), 201-206
Plasmodium berghei, scanning electron microscopy, ionic etching of mouse erythrocytes using a cathodic evaporator permits visualization of parasitic penetration of erythrocyte membrane by invagination
- Blood**
 Gorenflot, A.; et al., 1978, Ann. Pharm. Franc., v. 36 (7-8), 301-308
Plasmodium berghei-infected mouse erythrocytes, formation of myelin-like forms, light and scanning electron microscopy
- Blood**
 Gorenflot, A.; et al., 1979, Ann. Pharm. Franc., v. 37 (7-8), 275-284
Plasmodium berghei, mice (exper.), cause-effect relationship between myelin-like form of erythrocytes and that of neutrophilic granulocytes or monocytes which have phagocytized pigment grains
- Blood**
 Gorenflot, A.; and Piette, M., 1977, Ann. Pharm. Franc., v. 35 (9-10), 337-342
Plasmodium berghei-infected mice, changes in red blood cell morphology after penetration and intracellular development of parasite
- Blood**
 Greenham, R., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 72-75
Schistosoma haematobium, possible relationships between infection and severe anemia, hemoglobin levels of adolescent boys particularly low in the presence of schistosomiasis: Kenya
- Blood**
 Greig, W. A.; et al., 1979, Brit. Vet. J., v. 135 (2), 130-141
Trypanosoma congolense, *T. vivax*, cattle, factors affecting blood sampling for parasitemia and anemia (diurnal variation; ear-vein vs. jugular-vein blood): The Gambia
- Blood**
 Guelfi, J. F., 1978, Comp. Immunol., Microbiol. and Infect. Dis., v. 1 (1-2), 77-82
Haemobartonella felis in cats (nat. and exper.), value of examining blood smear for diagnosis and prognosis: region of Toulouse
- Blood**
 Gupta, O. K.; and Banerjee, R. N., 1976, Ann. Soc. Belge Med. Trop., v. 56 (3), 151-157
Plasmodium vivax, humans, possible association of disseminated intravascular coagulation and hyperuricaemia, improvement after chloroquine therapy
- Blood**
 Gupta, S. L.; and Gautam, O. P., 1978, Indian J. Animal Sc., v. 48 (12), 917
Anaplasma ovis, sheep (exper.), no apparent variation in blood sugar values observed during infection
- Blood**
 Haiba, M. H.; Rahman, M. S.; and Kawasmeh, Z. A., 1977, J. Egypt. Vet. Med. Ass., v. 37 (4), 49-60
Echinostoma revolutum, chickens, ducklings, mice, blood cell counts, hemoglobin picture, serum total proteins and their electrophoretic patterns, clinical pathology: Egypt
- Blood**
 Hein, B.; and Laemmler, G., 1978, Ztschr. Parasitenk., v. 57 (3), 199-211
Eimeria stiedai, rabbits (exper.), alteration of serum enzyme activities
- Blood**
 Herrero, C.; Arroyo, M.; and Vasallo, F., 1976, Rev. San. e Hig. Pub., v. 50 (7-8), 713-727
Trichinella spiralis, biochemical alterations in parasitized rats, findings of decrease in albumin, increase in alpha and beta globulins and in serum potassium
- Blood**
 Hirsch, R. P., 1979, Internat. J. Parasitol., v. 9 (5), 395-399
Histomonas meleagridis-infected turkeys, dynamics of protozoan population density, plasma glutamic oxalacetic transaminase, plasma bilirubin concentration, relationship to clinical symptoms
- Blood**
 Howard, R. J.; and Mitchell, G. F., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (5), 455-457
Plasmodium berghei, uninfected cells separated from infected mouse blood were cleared more rapidly than normal mouse erythrocytes after injection into normal mice
- Blood**
 Hubert, J.; Kerboeuf, D.; and Gruner, L., 1978, Bull. G.T.V. (6), 1-16
gastrointestinal nematodes, ovine, epidemiology, effect on host growth and plasma pepsinogen levels: Limousin
- Blood**
 Ilemobade, A. A.; and Blotkamp, C., 1978, Tropenmed. u. Parasitol., v. 29 (4), 443-450
Eperythrozoon ovis, sheep (exper.), pathologic changes in blood picture, concurrent or superimposed infection with *Trypanosoma vivax* did not affect growth of either parasite
- Blood**
 Ishihara, K.; et al., 1978, Japan. J. Vet. Sc., v. 40 (2), 171-183
dirofilariasis, dogs with varying degrees of clinical severity, serum free cholesterol concentration, serum lecithin cholesterol acyltransferase activity, relationship to hepatic injury

- Blood**
 Isoun, T. T.; Isoun, M. J.; and Anosa, V. O., 1978, Tropenmed. u. Parasitol., v. 29 (3), 330-334
 Trypanosoma vivax-infected sheep, free plasma amino acid profiles of infected sheep and the trypanosome organism, significance of amino acid changes in terms of host and parasite metabolism
- Blood**
 Itskan, S. B.; and Saldanha, P. H., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (2), 83-91
 human malaria, erythrocyte glucose-6-phosphate dehydrogenase activity in infected and non-infected persons in endemic region: Sao Paulo (Iguape)
- Blood**
 Izaki, S.; Fukuyama, K.; and Epstein, W. L., 1979, J. Reticuloendothel. Soc., v. 26 (5), 507-514
 Schistosoma mansoni, mice, modulation of anti-thrombin and anti-fibrinolytic activities in tissue during development of granulomas
- Blood**
 Jablonowska, C.; and Jablonowski, Z., 1974, Acta Parasitol. Polon., v. 22 (12-21), 249-259
 Ascaris suum and vitamin C deficiency, effect on levels of glucose and acid-soluble phosphate compounds in blood of guinea pigs
- Blood**
 Jackowska-Klimowicz, J., 1977, Roczniki Akad. Med. im. Juliana Marchlewskiego Białymstoku, v. 21, 151-171
 human trichinellosis, changes in white blood cell system and protein alterations in the course of infection
- Blood**
 Jensen, P. T.; and Nansen, P., 1978, Acta Vet. Scand., v. 19 (4), 601-603
 ostertagiasis, calves, serum levels of immunoglobulins, albumin, total protein, and pepsinogen
- Blood**
 Joerg, A.; et al., 1978, Experientia, v. 34 (12), 1654-1656
 rapid and simple method for isolation of pure eosinophilic leukocytes from horse blood
- Blood**
 Kaaya, G. P.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (2), 230-235
 Trypanosoma vivax, T. congolense, serum from infected cattle inhibited bovine granulocyte/macrophage colony formation in methyl cellulose culture, degree of inhibition appeared related to degree of parasitemia; no inhibitors of erythropoiesis were observed
- Blood**
 Kaaya, G. P.; Winqvist, G.; and Johnson, L. W., 1977, Bull. Animal Health and Prod. Africa, v. 25 (4), 397-408
 Trypanosoma congolense, goats, clinico-pathological aspects with particular reference to pathogenesis of anemia, changes in peripheral blood and in bone marrow described in detail
- Blood**
 Kaushik, R. K.; and Sen, A. B., 1978, Indian J. Animal Sc., v. 48 (6), 444-449
 Ascaridia galli, chicks (exper.), changes in total leucocyte counts during 8 week period
- Blood**
 Kerboeuf, D., 1979, Rev. Med. Vet., Toulouse, v. 130 (10), 1359-1360, 1365-1368
 strongylosis, ruminants, diagnosis, blood pepsinogen levels
- Blood**
 Kerboeuf, D.; Hubert, J.; and Le Stang, J. P., 1979, Rec. Med. Vet., v. 155 (2), 143-148
 Ostertagia ostertagi, cattle, serum pepsinogen levels in relation to worm burden and anthelmintic treatments
- Blood**
 Khovanskikh, A. E.; and Kuznetsova, N. A., 1975, Parazitologiya, Leningrad, v. 9 (1), 77-81
 Eimeria tenella-infected chickens, intensity of C¹⁴-glycine inclusion into proteins of various organs, changes in total proteins and gamma-globulin in blood serum, correlation between increased biosynthesis of proteins in immunocompetent organs and increase in gamma-globulin in blood serum
- Blood**
 Kondo, K.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (3), 137-143
 Toxocara canis larvae, mice (exper.), transitional changes of blood picture
- Blood**
 Krettli, A. U.; Pereira, J. P.; and Brener, Z., 1969, Rev. Inst. Med. Trop. S. Paulo, v. 11 (2), 94-100
 Plasmodium berghei normal and chloroquine-resistant strains, mice, comparative study of hematology, parasitemia curves, and mortality rate
- Blood**
 Kublitskine, O.; et al., 1976, Med. Parazit. i Parazitarn. Bolezni, v. 45 (2), 153-157
 Echinococcus granulosus, effects on rats (plasmocyte reaction, antibody in serum, liver glycogen content, serum transaminase)
- Blood**
 Kudriashova, Iu. V.; and Naumova, A. M., 1978, Veterinariia, Moskva (4), 76-78
 Haemogregarina cyprini, carp, schizogonial stages in blood plasma and kidney smears, host blood values
- Blood**
 Kulmamatov, E. N.; and Azimov, D. A., 1978, Dokl. Akad. Nauk UzSSR (8), 66-67
 Protostrongylus spp. in sheep (exper.), changes in blood cells and proteins and protein fractions during course of infection as indication of host-parasite interrelationships and adaptations
- Blood**
 Kurlekar, N.; and Mehta, B. C., 1979, Indian J. Med. Research, v. 70, 206-208
 diagnostic accuracy of beta thalassemia trait based on haemoglobin-A2 levels in an individual or population not altered by the presence of malarial infections
- Blood**
 Laiblin, C., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (3), 48-50
 Theileria annulata, cattle (exper.), haematological study, toxic lesion of bone marrow caused aplastic anaemia

Blood

- Lal, D. M.; and Hussain, Q. Z., 1979, Indian J. Med. Research, v. 70, 13-16
Plasmodium berghei-infected rats, serum urea and electrolyte levels

Blood

- Langer, B.; et al., 1979, AMB, Rev. Ass. Med. Brasil., v. 22 (12), 449-453
[Schistosoma] mansoni, human hepato-splenic form, absorption of fibrinogen does not differ from that of normal persons

Blood

- Laser, H.; and Klein, R., 1979, Nature, London (5723), v. 280, 613-614 [Letter]
Plasmodium falciparum, protection given by haemoglobin S in heterozygotes for sickle cell gene, rebuttal to hypothesis of Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1978. Nature, London (5672), v. 274, 701-703

Blood

- Leutskaja, Z. K.; and Matsepa, R. L., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 105-109
Ascaridia galli-immunized chickens with vitamin A deficiency, lipoprotein and glycoprotein fractions of serum

Blood

- Lopez Antunano, F. J.; and Palmer, T. T., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 319 [Letter]
Plasmodium vivax, high susceptibility of Duffy blood group-negative Aotus trivirgatus griseimembra

Blood

- Lowe-Jinde, L., 1979, J. Fish Biol., v. 14 (3), 297-302
Cryptobia salmositica in Salmo gairdneri (exper.), plasma glucose and proteins and haematocrit levels during course of infection, changes produced in host metabolism will undoubtedly affect host growth and population size

Blood

- McGregor, I. A., 1978, Israel J. Med. Sc., v. 14 (5), 523-536
malaria, epidemiological aspects, symposium presentation: failure of eradication programs; malaria in pregnancy; interaction between parasite and human erythrocyte

Blood

- McQuiston, T. E.; and Schurr, K. M., 1978, J. Protozool., v. 25 (3, pt. 2), 374-377
Eimeria nieschulzi, rats, effect of infection on leukocyte levels

Blood

- Mahajan, C. L.; et al., 1979, J. Fish Dis., v. 2 (6), 519-528
Isoparorchis hypselobagri-infected Channa punctatus, morphological, behavioural, biochemical, and haematological changes, possible human health hazard: reservoir (Khookas bundh) about 20 km north of Jaipur

Blood

- Malczewski, A., 1970, Acta Parasitol. Polon., v. 18 (27-41), 399-415
Haemonchus contortus, pathogenesis and pathology in lambs (exper.): clinical observations, parasitological observations, haematological observations, pH level of abomasal fluid, necropsy findings; 'self cure' between days 10 and 14 closely related to heavy infiltration of abomasal mucosa by eosinophils

Blood

- Maley, G. J. M.; and Desser, S. S., 1977, Canad. J. Zool., v. 55 (2), 355-358
Leucocytozoon simondi, Pekin ducklings, quantification of anemia, gametocytemia, and osmotic fragility of erythrocytes

Blood

- Martin, S. K.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 216-218
Plasmodium falciparum, infected Nigerian children, survey of blood group antigens, no significant difference from healthy children

Blood

- Medinskii, B. L., 1977, Veterinariia, Moskva (9), 70-71
[Melophagus], sheep, blood changes (anemia, neutrophilia, lymphocytopenia)

Blood

- Migasena, P.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (1), 3-12
human acute falciparum malaria, changes in serum protein patterns studied using polyacrylamide gel electrophoresis, other blood biochemical parameters

Blood

- Migasena, P.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 355-361
amoebic liver abscess, humans, serum protein patterns compared with those of patients with primary hepatoma using electrophoresis and immunoelectrophoresis, value in differentiating conditions

Blood

- Mikhail, E. G.; and Milad, M., 1977, Egypt. J. Vet. Sc., v. 13 (2), 1976, 99-105
Trichinella spiralis, rats (exper.), pathological changes in blood calcium and parathyroid activity

Blood

- Miller, L. H.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1069-1072
Plasmodium vivax, 13 American blacks infected while in Vietnam were all Duffy blood group positive, lends support to hypothesis that Duffy negative genotype is basis for resistance of blacks to vivax malaria

Blood

- Miller, L.; et al., 1979, J. Exper. Med., v. 149 (1), 172-184
Plasmodium knowlesi, interaction between cytochalasin B-treated merozoites and erythrocytes, attachment and junction formation, results suggest that defect in invasion of Duffy-negative RBCs is at the step of junction formation

Blood

- Mirck, M. H.; and Franken, P., 1978, Tijdschr. Diergeneesk., v. 103 (7), 355-360
Strongyloides westeri, ponies (exper.), foals and yearlings, comparisons of prepatent periods, haemoglobin values, and beta-globulin levels

Blood

- Molina, J. Q.; and Montenegro, M. M., 1977, Philippine J. Vet. Med., v. 16 (1-2), 181-186
Anaplasma marginale, case report, two cross-bred cows (blood), clinical signs, hematological picture, pathology: Philippines

Blood

- Mossalam, I.; Hamza, S. M.; and El-Abdin, Y. Z., 1974, J. Egypt. Vet. Med. Ass., v. 34 (1-2), 73-80
Neoscaris vitulorum, guinea pigs (exper.), biochemical picture of blood

Blood

- Munday, B. L., 1979, Vet. Parasitol., v. 5 (2-3), 129-135
Sarcocystis ovicanis, deleterious effect on growth rate and haematocrit in lambs, presence of antibodies (presumably colostral) against *Sarcocystis* did not appear to provide

Blood

- Muniz, V. M. M.; and Ferreira Neto, J. M., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (2), 215-224
 gastro-intestinal parasites, sheep, influence of diet and parasitism on some blood components

Blood

- Musaev, M. A.; and Elchiev, Ia. Ia., 1970, Parazitologiya, Leningrad, v. 4 (5), 494-500
Eimeria tenella, *E. mitis*, chickens, serum protein changes over course of infection

Blood

- Musaev, M. A.; and Ibragimova, G. G., 1974, Parazitologiya, Leningrad, v. 8 (1), 70-73
Eimeria tenella, *E. mitis*, chickens (exper.), changes in lecithin content of blood serum at different stages of infection, extent of biochemical changes depends on pathogenicity of different species and host age

Blood

- Nelson, W. A.; et al., 1977, J. Med. Entom., v. 13 (4-5), 389-428
 host-ectoparasite interactions, review: hematologic and clinical manifestations of infestation, arthropod antigens and host antibodies raised against them, manifestations of antigen-antibody interaction, histopathologic reactions of skin to arthropod feeding and acquired resistance to arthropods, genetics of host resistance, economic effects of parasitism, speculation on nature of innate and acquired resistance

Blood

- Nielsen, R. L.; et al., 1979, Am. J. Med. Sc., v. 277 (3), 325-329
Plasmodium falciparum, woman, intense parasitemia, deepening coma, and acute renal failure, exchange transfusions as useful adjunct to conventional chemotherapy, numbers of infected circulating erythrocytes reduced: United States, had previously travelled in Ghana

Blood

- Nunesmaia, H. G.; et al., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (3), 160-163
Schistosoma mansoni, hepatic form, survey of racial admixture and aaptoglobulinemia, Negroes have higher resistance to development of severe infection than do other racial groups: Brazil

Blood

- Nurse, G. T., 1979, Lancet, London (8149), v. 2, 938-940
 humans with thalassaemia, role of iron in host tissue as protective mechanism against *Plasmodium* infections

Blood

- Ogilvie, B. M.; Hesketh, P. M.; and Rose, M. E., 1978, Exper. Parasitol., v. 46 (1), 20-30
Nippostrongylus brasiliensis-infected rats, peripheral blood leucocyte response with special reference to basophils and their possible role in worm expulsion

Blood

- Ogunsusi, R. A., 1978, Research Vet. Sc., v. 25 (3), 298-301
 acute and chronic nematodiasis, sheep, changes in blood values: northern Guinea savanna of Nigeria

Blood

- de Oliveira, A. R.; and Penha, A. M., 1978, Arq. Inst. Biol., Sao Paulo, v. 45 (3), 191-195
 nematodes, calves (Holstein x Zebu, exper.), electrophoresis of serum protein (total and fraction) changes

Blood

- Omole, T. A.; and Onawunmi, O. A., 1979, Ann. Parasitol., v. 54 (5), 495-506
Trypanosoma brucei-infected immunized and non-immunized rabbits maintained on diets with different levels of copper, growth and carcass performance, blood constituents

Blood

- Onabanjo, A. O., 1978, Agents and Actions, v. 8 (1-2), 139-140
Plasmodium knowlesi in *Macaca mulatta*, plasma kinin concentration, physiopathological effects of kinin extracts from blood of infected monkeys when injected intradermally into guinea pigs

Blood

- Ononogbu, I. C.; and Eleazu, C. N., 1979, Research Vet. Sc., v. 27 (1), 123-124
 tick-infested *N'dama* cattle, plasma phospholipid changes

Blood

- Oomen, J. M. V.; Meuwissen, J. H. E. T.; and Gemert, W., 1979, Trop. and Geogr. Med., v. 31 (4), 587-606
 males of 3 ethnic groups and 3 age groups inhabiting same locality, haematological status (including anemia), spleen and liver enlargement, immunoglobulin status, malaria parasite rates, other parasite infections, possible associations between these and other factors (including nutrition, sickle cell trait, altered immune response to malaria): Northern Nigeria

Blood

- Owen, J. S.; et al., 1978, Rev. Brasil. Biol., v. 38 (4), 913-918
Schistosoma mansoni, mice, plasma and erythrocyte lipid concentrations, plasma lecithin:cholesterol acyltransferase activity

Blood

Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1978, *Nature*, London (5672), v. 274, 701-703

Plasmodium falciparum, hemoglobin S has detrimental effect on parasite proliferation, this involves both invasion into red cell and growth once inside and requires conditions of low oxygen tension, actual sickling of cells concerned is not necessary, provides explanation for protection of sickle cell heterozygotes against *P. falciparum* malaria and thus for high frequency of sickle-cell gene in parts of world where malaria is or has been endemic

Blood

Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1979, *Nature*, London (5723), v. 280, 614 [Letter]

Plasmodium falciparum, protection given by haemoglobin S in heterozygotes for sickle cell gene, answer to rebuttal of Laser, H.; and Klein, R., 1979, *Nature*, London (5723), v. 280, 613-614

Blood

Pavlov, P.; and Denev, J., 1970, *Acta Parasitol. Polon.*, v. 18 (1-12), 33-43

Dictyocaulus filaria, lambs infected with 1st, 2nd, or 3rd stage larvae administered by various routes and then reinfected with infective larvae, blood counts, serum proteins, antibody production, worm elimination

Blood

Pereira, F. E. L.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (2), 238

Schistosoma mansoni, humans with Symmer's fibrosis, significantly higher frequency of blood group A than blood group O: Brazil

Blood

Poelvoorde, J.; and Berghen, P., 1978, *Vlaams Diergeneesk. Tijdschr.*, v. 47 (5), 373-387

Oesophagostomum dentatum, pigs (exper.) on low-protein diet, blood changes, weight differences

Blood

Poelvoorde, J.; and Berghen, P., 1979, *Vlaams Diergeneesk. Tijdschr.*, v. 48 (3), 217-223

Oesophagostomum dentatum, pigs (exper.), blood plasma mineral and enzyme levels

Blood

Poelvoorde, J.; and Berghen, P., 1979, *Vlaams Diergeneesk. Tijdschr.*, v. 48 (4), 283-289

Oesophagostomum dentatum, pigs (exper.), hematological and serological changes after single infection

Blood

Poelvoorde, J.; and Berghen, P., 1979, *Vlaams Diergeneesk. Tijdschr.*, v. 48 (4), 290-298

Oesophagostomum dentatum, pigs (exper.), hematological and serological changes during repeated infections

Blood

Prabhakar, K. S.; and Hiregoudar, L. S., 1979, *Gujarat Agric. Univ. Research J.*, v. 4 (2), 57-58

Theileria hirci, carrier sheep, parasite counts and haematological observations before and after splenectomy

Blood

Preston, J. M.; and Allonby, E. W., 1979, *Research Vet. Sc.*, v. 26 (2), 140-144
Haemonchus contortus, sheep, influence of haemoglobin phenotype on susceptibility to infection: Kenya

Blood

Przyjalkowski, Z., 1978, *Bull. Acad. Polon. Sc.*, Cl. II, s. Sc. Biol., v. 26 (5), 331-336
Trichinella pseudospiralis, conventional and germfree mice, effect of intestinal flora on course of infection and hematological changes

Blood

Przyjalkowski, Z.; Zapart, W.; and Starzynski, S., 1978, *Bull. Acad. Polon. Sc.*, Cl. II, s. Sc. Biol., v. 26 (12), 875-880

Toxocara canis, mice, intravital diagnosis of early larva migrans, serological and hematological tests, histopathological changes in tissues, numbers of larvae detected in various internal organs

Blood

Purcherea, A.; Caprarin, A.; and Mihai, D., 1977, *Lucrar. Stiint. Inst. Agron. N. Balcescu, s. C. Med. Vet.*, v. 17, 1974, 47-50

Ascaris suum, pigs, blood changes: hyperneutrophilemia, lymphopenia, changes in K, Na and Ca, macrocytic hypoglobulinic anemia; eosinophilia due to enzyme released by moulting between third and tenth day of infection

Blood

Rajasekariah, G. R.; and Howell, M. J., 1979, *J. Parasitol.*, v. 65 (4), 481-487

Fasciola hepatica, rats, transfer of immunity by serum and cells from infected to naive animals, hematological and precipitating antibody responses of recipients

Blood

Rama, S. P.; et al., 1978, *Indian Vet. Med. J.*, v. 2 (4), 197-199

Eimeria parva, *E. ninakohlyakimovae*, sheep (exper.), blood values 11th day post-infection

Blood

Ramadan, P.; and Bauer, M., 1978, *Vet. Arhiv, Zagreb*, v. 48 (5), 251-256

Piroplasma canis, dogs, clinical pathology, particular reference to haemogram

Blood

Ranucci, S.; and Grol-Ranucci, H., 1978, *Clin. Vet.*, Milano, v. 101 (6), 324-333

Dicrocoelium lanceolatum, *Echinococcus granulosus*, sheep, changes in serum enzymes and proteins and blood bilirubin and cholesterol

Blood

Ratynska-Prill, D., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 403-415

Strongyloides papillosus, goats, primary infection and reinfections, white blood cell picture

Blood

Raviprakash, V.; Tewari, H. C.; and Sabir, M., 1978, *Indian Vet. J.*, v. 55 (1), 54-55

Dictyocaulus filaria, sheep (exper.), serum 5-hydroxytryptamine level remains nearly the same throughout different stages of infection

Blood

- Ricciardi, I. D.; et al., 1978, Rev. Microbiol., Sao Paulo, v. 9 (4), 181-187
Toxoplasma gondii, human, seroepidemiological survey, prevalence in relation to geographic region, age, sex, rural vs. urban residence, skin color, blood group, occupation, contact with animals: Brazil

Blood

- Romaniuk, K., 1974, Acta Parasitol. Polon., v. 22 (1-11), 29-48
Hypoderma bovis, pathogenesis in cattle, content of sialic acid, properdin, and proteins in blood serum during course of complete cycle of infestation

Blood

- Romestand, B., 1979, Ann. Parasitol., v. 54 (4), 423-448
Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts

Blood

- Romestand, B.; and Trilles, J. P., 1977, Ztschr. Parasitenk., v. 52 (1), 91-95
Anilocra physodes, *Meinertia oestroides*, *Emetha audouini*, teleost fishes, blood values, anemia, hypertrophy and hypervascularization of spleen: Herault, France

Blood

- Rose, M. E.; Hesketh, P.; and Ogilvie, B. M., 1979, Immunology, v. 36 (1), 71-79
Eimeria maxima, chickens, *E. nieschulzi*, rats, primary and secondary infections, *E. maxima*-immunized chickens challenged with *E. acervulina*: peripheral blood leucocyte response, correlation with resistance to reinfection

Blood

- Roth, E. F., jr.; et al., 1978, Science (4368 [error as 4365 on cover]), v. 202, 650-652
Plasmodium falciparum, increased sickling propensity of infected red cell under conditions of total and partial deoxygenation in vitro, results lend support to concept that heterozygotes for Hb S in malarious region may have improved fitness for survival which in turn maintains balanced polymorphism for Hb S gene

Blood

- Roth, R. L.; and Herman, R., 1979, Exper. Parasitol., v. 47 (2), 169-179
Plasmodium berghei, correlation of in vitro erythrophagocytosis with dynamics of early-onset anemia and reticulocytosis in mice

Blood

- Rowlands, D. ap T.; and Clampitt, R. B., 1979, Vet. Parasitol., v. 5 (2-3), 155-175
Fasciola hepatica, sheep, cattle (both exper.), bodyweight, blood and plasma analyses, emphasis on use of plasma enzyme levels to detect and monitor liver damage and to assess efficacy of diamphenethide against immature flukes

Blood

- Ruff, M. D.; Wyatt, R. D.; and Witlock, D. R., 1978, J. Parasitol., v. 64 (1), 23-26
Eimeria spp. in broilers, severe infection increased prothrombin times compared with uninfected birds

Blood

- Saad, F. E.; et al., 1974, J. Egypt. Vet. Med. Ass., v. 34 (1-2), 81-84
Eimeria tenella, chicks (exper.), blood changes during course of infection

Blood

- Saror, D. I.; Schillhorn van Veen, T. W.; and Adeyanju, J. B., 1979, J. Small Animal Practice, v. 20 (4), 243-247
 intestinal parasites, dogs, prevalence, distribution by age group, blood picture: Zaria, Nigeria

Blood

- Schalm, O. W., 1979, Canine Pract., Santa Barbara, v. 6 (6), 46-49
 trypanosomiasis, *Leishmania donovani*, and other uncommon blood disorders, dogs, case reports

Blood

- Schanzel, H.; et al., 1978, Acta Vet. Brno, v. 47 (1-2), 91-95
Trichinella spiralis, mice, guinea pigs, serum creatine-phosphokinase activity not useful for diagnosis

Blood

- Sharma, S. K.; Banerjee, D. P.; and Gautam, O. P., 1978, Indian J. Animal Health, v. 17 (2), 105-110
Anaplasma marginale in *Bubalus bubalis* (exper.), clinical course, haematological changes, effect of immunosuppressants

Blood

- Silva, R. M.; Ferreira Neto, J. M.; and Sampiao, I. B. M., 1978, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 30 (3), 261-274
Haemonchus contortus, sheep (exper.), influence of diet and parasites on copper, iron, and zinc in blood serum

Blood

- Singh, B.; Gautam, O. P.; and Banerjee, D. P., 1978, Haryana Agric. Univ. J. Research, v. 8 (1), 35-39
Anaplasma, cattle and sheep (both exper.), blood changes before and after treatment with terramycin injectable solution

Blood

- Singh, D. V.; Joshi, H. C.; and Shivnani, G. A., 1972, Philippine J. Vet. Med., v. 11 (2), 101-109
Setaria cervi, *Onchocerca armillata*, buffaloes, clinical, hematological, and blood biochemical studies, efficacy of anthiomaline

Blood

- Sinski, E., 1975, Acta Parasitol. Polon., v. 23 (26-40), 425-439
Ostertagia circumcincta, sheep, parasitological, clinical, and hematological changes after multiple infections especially in relation to inhibition of larval development

Blood

- Spencer, H. C.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 664-670
Plasmodium falciparum, *P. vivax*, human (Duffy blood group positive and negative, black and white), indirect fluorescent antibody titers, slide-demonstrated infection rates, Duffy negative genotype appears to be factor in resistance to *P. vivax*: Honduras

- Blood**
 Stacey, B. R.; et al., 1978, J. Econom. Entom., v. 71 (6), 967-970
Amblyomma maculatum, Hereford and Brahman steers, drylot conditions, weight gains and blood parameters, comparison between breeds and infested and uninfested steers.
- Blood**
 Stadnichenko, A. P., 1970, Parazitologiya, Leningrad, v. 4 (5), 484-488
Viviparus coniectus males infected with *Neocanthopharyphium echinatoides metacercariae* and females infected with *Cercaria adiposa*, changes in blood proteins, agar gel electrophoresis
- Blood**
 Stewart, G. L., 1976, Rice Univ. Studies, v. 62 (4), 211-224
Trichinella spiralis, mice, biochemical pathology: changes in liver and muscle glycogen and some blood chemical parameters
- Blood**
 Stewart, G. L.; et al., 1978, Exper. Parasitol., v. 45 (2), 287-297
Trichinella spiralis-infected mice, alterations of blood chemistry, relation to pathologic lesions occurring in gut and muscles of trichinous host
- Blood**
 Stoianov, P.; et al., 1978, Vet. Med. Nauki, v. 15 (8), 105-114
Eimeria tenella, broiler chickens, varied temperature and moisture regimes, blood biochemistry, host resistance, efficacy of pancosin plus
- Blood**
 Stuart, J., 1978, Brit. Med. J. (6139), v. 2, 774 [Letter]
falciparum and *vivax* malarias, blood coagulation studies compared, brief note
- Blood**
 Sutton, R. H., 1979, Vet. Parasitol., v. 5 (1), 11-15
Eperythrozoon ovis, effect of infection on reductive potential of sheep erythrocytes
- Blood**
 Swarup-Mitra, S.; Chowdhury, A. K. R.; and Sarkar, M., 1979, Indian J. Med. Research, v. 69, 571-576
Leishman[ia] donovan[i], human, erythrocytic enzymes inhibited, haematological changes, normalization following sodium antimony gluconate therapy
- Blood**
 Sykes, A. R.; Coop, R. L.; and Angus, K. W., 1979, Research Vet. Sc., v. 26 (3), 372-377
Trichostrongylus vitrinus, sheep (exper.), chronic infection, food intake and body weight gains, food digestibility, body composition, bone chemistry and histology, serum constituents
- Blood**
 Tandon, R. S.; and Chandra, S., 1977, Ztschr. Parasitenk., v. 52 (3), 199-202
trypanosome-infected fishes, lowered serum cholesterol levels, possible causes
- Blood**
 Teixeira, A. R. L.; et al., 1978, J. Clin. Invest., v. 62 (6), 1132-1141
Trypanosoma cruzi, children with apparent vs. inapparent acute Chagas' disease, clinical and laboratory findings, humoral antibody response, delayed-type skin responses, inhibition of leukocyte migration, serum proteins and immunoglobulins; demonstration of cell-mediated immunodepression in inapparent acute disease
- Blood**
 Tizard, I. R.; Sheppard, J.; and Nielsen, K., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 198-200
Trypanosoma brucei, characterization of second class of hemolysins as free fatty acids
- Blood**
 Trangle, K. L.; et al., 1979, Parasite Immunol., v. 1 (2), 133-140
Schistosoma mansoni, S. haematobium, school children, prevalence and severity of infection in relation to blood group type and ability to secrete blood group antigens: Swaziland
- Blood**
 Valli, V. E. O.; Forsberg, C. M.; and Lumsden, J. H., 1979, Vet. Path., v. 16 (1), 96-107
Trypanosoma congolense, calves (exper.), pathogenesis, neutropenia, myeloid response
- Blood**
 Veerannan, K. M., 1978, Current Sc., Bangalore, v. 47 (8), 272-273 [Letter]
Ascaris lumbricoides, unfertilized ova and fragments, man (peripheral blood, feces)
- Blood**
 Verma, B. B.; and Gautam, O. P., 1978, Indian Vet. J., v. 55 (8), 648-653
Trypanosoma evansi, buffalo and cow calves (both exper.), clinical findings, parasitaemia, hematological changes
- Blood**
 Vreeken, J.; and Cremer-Goote, T. M., 1978, Brit. Med. J. (6136), v. 2, 533-535
falciparum malaria, haemostatic defect in non-immune patients, no evidence of diffuse intravascular coagulation (DIC), heparin not used and all recovered without residual symptoms; heparin administration should probably be considered only when clear-cut DIC has been demonstrated
- Blood**
 Wellde, B. T.; et al., 1978, Exper. Parasitol., v. 45 (1), 26-33
Trypanosoma congolense, cattle (exper.), thrombocytopenia, effects of parasite concentration, curative berenil therapy, and immune status on thrombocyte levels; coagulation abnormalities
- Blood**
 Williams, R. E.; Hair, J. A.; and McNew, R. W., 1978, J. Parasitol., v. 64 (2), 336-342
Amblyomma maculatum on pastured Hereford steers, effects of tick infestation on blood composition and weight gain

- Blood**
 Wilson, A. J.; and Trueman, K. F., 1978, Austral. Vet. J., v. 54 (3), 121-124
Anaplasma marginale, *Bos indicus* cross steers (exper.), effects of reduced energy intake on humoral antibody response, parasitaemia, body weight, packed cell volumes, and plasma protein values
- Blood**
 Wilson, G. R.; and Wilson, L. P., 1978, Research Vet. Sc., v. 25 (3), 331-336
Trichostrongylus tenuis, captive *Lagopus l. scoticus*, hematology, weight, and condition
- Blood**
 Witlock, D. R.; and Wyatt, R. D., 1978, Avian Dis., v. 22 (3), 481-486
Eimeria tenella, dietary aflatoxin, and combination of both, broiler chicks, prolongation of prothrombin time
- Blood**
 Wittwer, F.; et al., 1979, Zentralbl. Vet.-Med., Reihe B, v. 26 (5), 424-426
Dipetalonema sp., dogs, haematological values
- Blood**
 Wright, I. G., 1978, Vet. Parasitol., v. 4 (4), 393-398
Babesia bovis-infected *Bos taurus*, biogenic amine levels in plasma and whole blood, probable role in cardiovascular disturbances
- Blood**
 Wright, I. G., 1979, Gen. Pharmacol., v. 10 (4), 319-325
Babesia, *Plasmodium*, *Trypanosoma*, kallikrein-kinin system, mechanisms of activation (parasite enzymes, immune complexes), role in hypotensive shock syndrome of infected animals, review
- Blood**
 Wright, I. G.; and Goodger, B. V., 1977, Ztschr. Parasitenk., v. 53 (1), 63-73
Babesia bigemina, calves, plasma studies for changes in coagulation system and kallikrein levels; comparisons with *B. argentina* bovine infections discussed
- Blood**
 Zajicek, D.; et al., 1977, Vet. Med., Praha, v. 50, v. 22 (2), 99-108
Paramphistomum sp., lambs (exper.), pathogenic effect on blood values, amino-transferases, alkaline phosphatase, minerals in blood serum
- Blood**
 Zajicek, D.; Marova, M.; and Zahradnikova, W., 1978, Vet. Med., Praha, v. 51, v. 23 (1), 29-37
Haemonchus contortus, *Trichostrongylus colubriformis*, sheep (exper.), efficacy of mebendazole, hematological indices before and after treatment
- Blood**
 Zapart, W.; and Przyjalkowski, Z., 1976, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 24 (5), 293-298
Toxocara canis, laboratory mice, diagnosis by ring precipitation and latex agglutination; hematological changes
- Blood**
 Zhidkov, A. E., 1977, Sibirsk. Vestnik Sel'sko-Khoziaistv. Nauki (40), (4), 55-60
 ostertagiasis, sheep (exper.), parasitology, clinical aspects, blood morphology and biochemistry
- Blood**
 Zyngier, F. R., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 251-257
Toxocara canis and *Ascaris suum* infections compared, rabbits, monkeys, description of infection, haematological response, serum proteins, skin test with *T. canis* antigen
- Blood groups.** See Blood.
- Blood picture.** See Blood.
- Blood transfusion.** See Blood; Disease transmission, Blood.
- Body location.** See Localization.
- Body wall.** See Parasite surfaces.
- Bolivia**
 De Muynck, A.; and Silva de Lagrava, M., 1977, Bol. Chileno Parasitol., v. 32 (3-4), 71-72
 intestinal parasites of school children: Yapacani, Bolivia
Ascaris lumbricoides; *Anquilostoma* sp.; *Trichuris trichiura*; *Strongyloides stercoralis*; *Hymenolepis nana*; *Taenia* sp.; *Entamoeba histolytica*; *Giardia lamblia*; *Entamoeba coli*; *Chilomastix mesnili*; *Endolimax nana*; *Iodamoeba buetschlii*)
- Bone.** [See also Musculoskeletal system]
- Bone**
 Alvarez Cambras, R.; et al., 1973, Rev. Cubana Cirug., v. 12 (4-6), 457-467
Echinococcus granulosus, human, case report, involvement of hip and pelvic bones, presentation with symptoms of chondrosarcoma, surgical management: Cuba
- Bone**
 Navarro Izquierdo, A.; and Pereda Garcia, J. M., 1974, Rev. Clin. Espan., v. 135 (4), 395-398
 human echinococcosis with primary localization in pelvic bone, discussion of clinical case: Spain
- Bone**
 Sykes, A. R.; Coop, R. L.; and Angus, K. W., 1979, Research Vet. Sc., v. 26 (3), 372-377
Trichostrongylus vitrinus, sheep (exper.), chronic infection, food intake and body weight gains, food digestibility, body composition, bone chemistry and histology, serum constituents
- Bone**
 Teymoorian, G. A.; and Bagheri, F., 1976, Radiology, v. 118 (1), 97-100
 human echinococcosis of skull, clinical case reports, value of radiologic diagnosis, incidence most common in young males
- Borneo (Kalimantan).** See Indonesia, Borneo.

Botswana

- Cooper, A. C. D.; and Johnson, R. H., 1973, South African Med. J., v. 47 (37), 1705-1707
intestinal parasites, incidence survey, children: hospital in Botswana
(*Entamoeba histolytica*; *Entamoeba* (unidentified); *Taenia saginata*; *Giardia lamblia*; *Enteromonas*; hookworm; *Hymenolepis nana*)

Brain. [See also Nervous system]

Brain

- Disko, R.; Braveny, I.; and Greutelaers, M. T., 1978, Zentralbl. Bakteriologie, 1. Abt. Orig., Reihe A, v. 242 (4), 565-571
Toxoplasma gondii, affinity of 4 strains to mice brains over other organs

Brain

- Jennings, F. W.; et al., 1979, Internat. J. Parasitol., v. 9 (4), 381-384
Trypanosoma brucei, brain as source of relapsing infection in mice after berenil chemotherapy

Brain

- Lal, A. A.; and Garg, N. K., 1979, Exper. Parasitol., v. 48 (3), 331-336
Hartmannella culbertsoni, meningoencephalitic mice, biochemical changes in brain

Brain

- Rai, R. D.; and Mohan Rao, V. K., 1978, Indian J. Exper. Biol., v. 16 (8), 903-905
Hartmannella culbertsoni, mice, experimental amoebic meningoencephalitis, gross biochemical changes in brain

Brain

- Rest, J. R.; and Wright, D. H., 1979, J. Path., v. 127 (3), 115-120
Plasmodium berghei-infected *Mesocricetus auratus*, cerebral lesions, transmission and scanning electron microscopy, hypothesized that pathogenesis relates to immune complex formation

Brain

- Sass, B.; and Gorgacz, E. J., 1978, J. Am. Vet. Med. Ass., v. 173 (9), 1248-1249
Ascarididae [sp.] in *Alectores graeca* chukar (brain), histologic changes, source of infection speculated: suburb of Washington, D.C.

Brazil

- Campos, C. A. M., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (2), 93-97
survey of deposits under fingernails of children, possible means of disseminating parasitic infections: bairro de Nova Descoberta (Natal, RN)
(*Enterobius vermicularis*; *Ancylostomidae*; *Trichocephalus trichiurus*; *Entamoeba histolytica*; *E. coli*; *Giardia lamblia*; *Ascaris lumbricoides*)

Brazil

- Campos, D. M. B.; Garibaldi, I. M.; and Carneiro, J. R., 1974, Rev. Patol. Trop., v. 3 (4), 355-359
prevalence of helminths in cats, incidence survey in Goiania, Brazil
(*Ancylostoma caninum*; *Ancylostoma braziliense*; *Physaloptera praeputialis*; *Dipylidium caninum*; *Toxocara cati*; *Pseudophyllidae*; *Aelurostrongylus abstrusus*; *Acantocephalos*; *Hydatigera taeniaeformis*)

Brazil

- Carneiro, J. R.; et al., 1973, Rev. Patol. Trop., v. 2 (4), 401-404
helminths of stray dogs, incidence survey: Goiania, Brasil
(*Ancylostoma* [caninum]; *A. brasiliensis*; *Toxocara* [canis]; *Strongyloides stercoralis*; *Spirocerca* [lupi]; *Dipylidium* [caninum])

Brazil

- da Cunha, A. S.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (5), 289-300
survey, human intestinal parasites occurring with *Entamoeba histolytica*: 3 geographical areas of Brazil
(*Entamoeba hartmanni*; *Schistosoma mansoni*; *A. lumbricoides*; *ancilostomides*; *S. stercoralis*; *T. trichiurus*)

Brazil

- Evangelista, A.; Komma, M. D.; and dos Santos, M. A. Q., 1972, Rev. Patol. Trop., v. 1 (1), 51-61
survey, incidence of intestinal parasitism in residents of Goiania, Brazil
(*Schistosoma mansoni*; *ancilostomides*; *Giardia lamblia*; *Entamoeba coli*; *E. histolytica*; *Strongyloides stercoralis*; *Ascaris lumbricoides*; *Trichocephalus trichiurus*; *Taenia* sp.; *Enterobius vermicularis*; *Hymenolepis nana*)

Brazil

- Faraco, B. F. C.; and Faraco, B. A., 1974, Rev. Brasil. Med., v. 31 (4), 246-248
survey of local waters for parasite contamination and of human feces for parasite infections: distrito de Florianopolis, State of Catarina, Brasil
(*Strongyloides stercoralis*; *ancylostomiasis*; *Ascaris lumbricoides*; *Trichuris trichiura*; *Taenia* sp.; *Balantidium coli*; *Giardia intestinalis*; *Entamoeba coli*; *Endolimax nana*)

Brazil

- Faria, J. A. S., 1972, Rev. Soc. Brasil. Med. Trop., v. 6 (5), 261-264
prevalence survey, intestinal parasites in school children 7-14 years of age: Salvador, Brazil
(*Ascaris lumbricoides*; *Trichocephalus trichiurus*; *ancilostomides*; *Schistosoma mansoni*; *Enterobius vermicularis*)

Brazil

- Faria, J. A. S., 1974, Rev. Patol. Trop., v. 3 (1), 51-55
survey, intestinal protozoa, children in suburban areas of Plataforma and Periperi, Salvador, Bahia, Brazil
(*Entamoeba histolytica*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*)

Brazil

- Federman, H. B.; de Holanda, J. C.; and Evangelista, A., 1973, Rev. Patol. Trop., v. 2 (2), 207-215
incidence survey, endo- and ectoparasites of domestic cats and pigeons from localities of Minas Gerais
Felis catus domesticus: (*Ctenocephalides felis*; *Platinosomum fastosum*; *Toxocara* sp.; *Dipylidium* [caninum]; *Pseudophyllidae*; *Phylloptera praeputialis*; *Ancylostoma* [braziliense]; *A. caninum*; *Hydatigera taeniaeformis*)
Columba livia: (*Columbicola columbae*; *Capillaria* [columbae]; *Ascaridia* [columbae])

Brazil

- Giazzi, J. F.; et al., 1974, Rev. Fac. Farm. e Odontol. Araraquara, v. 8 (1), 53-58
prevalence survey for intestinal parasites of inhabitants of Vila Vieira in the city of Araraquara, Brazil
(*Ascaris lumbricoides*; *ancilostomideo*; *Trichocephalus trichiurus*; *Hymenolepis nana*; *Taenia* sp.; *Strongyloides stercoralis*; *Enterobius vermicularis*; *Schistosoma mansoni*; *Entamoeba coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*)

Brazil

- Lustosa, E. de S.; et al., 1973, Rev. Patol. Trop., v. 2 (4), 397-399
ectoparasites of stray dogs in Goiania, Brazil
(*Ctenocephalides felis felis*; *Pulex irritans*; *Nosopsyllus fasciatus*; *Heterodoxus longitarsus*; *Linognathus setosus*; *Rhipicephalus sanguineus*)

Brazil

- Martins, W., jr.; and Freitas, M. G., 1975, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 27 (3), 309-324
helminth parasites, domestic animals, check-list: Brasilia, DF and other regions of State of Goias, Brazil

Brazil

- de Melo, H. J. H.; and Ribeiro, H. S., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (2), 161-164
check-list of helminth parasites, domestic animals, literature and original survey, 1972-1976: State of Mato Grosso. Brazil

Brazil

- Montoril, M., filho; Ferraroni, J. J.; and Montoril, D. de A. A., 1978, Acta Amazonica, v. 8 (1), 91-98
social, parasitologic, and sanitary survey of inhabitants of Nova Olinda do Norte, State of Amazonas, Brazil
(*Ascaris lumbricoides*; *Trichocephalus trichiurus*; *ancilostomideos*; *Strongyloides stercoralis*; *Enterobius vermicularis*; *Entamoeba histolytica*; *E. coli*; *Giardia lamblia*; *Endolimax nana*; *Chilomastix mesnili*)

Brazil

- Moretti, I. G.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (1), 41-44
prevalence survey for enteroparasites in children from local orphanage using 5 coprological techniques: Londrina, Parana, Brazil
(*Ascaris lumbricoides*; *Ancylostomidae*; *Trichocephalus trichiurus*; *Hymenolepis nana*; *Enterobius vermicularis*; *Strongyloides stercoralis*; *Schistosoma mansoni*; *Taenia* sp.; *Giardia lamblia*; *Entamoeba histolytica*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*)

Brazil

- Pereira, E., 1973, Rev. Patol. Trop., v. 2 (1), 55-61
survey, gastrointestinal nematodes, calves from 4 local farms in the region of Dourados, Goias
(*Cooperia*; *Haemonchus*; *Strongyloides*; *Oesophagostomum*; *Trichostrongylus*; *Trichuris*)

Brazil

- Perez, M. D.; et al., 1975, Rev. Farm. e Bioquim. Univ. Sao Paulo, v. 13 (2), 401-415
parasitological survey with emphasis on incidence of *Schistosoma mansoni* and its possible vectors: district of Cajati, State of Sao Paulo, Brazil
(*Entamoeba* sp.; *E. histolytica*; *E. coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Giardia lamblia*; *Chilomastix mesnili*; *Strongyloides stercoralis*; *Ancylostomidae*; *Ascaris lumbricoides*; *Trichuris trichiura*; *Enterobius vermicularis*; *Schistosoma mansoni*; *Taenia* sp.; *Hymenolepis nana*)

Brazil

- Perez, M. D.; Artigas, P. de T.; and de Lollo, N., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (3), 167-176
survey for human enteroparasites in 2 areas of differing socio-economic conditions; previously obtained data on dispersion of *Triatominae* and *Planorbidae* vectors compared with parasite findings: Braganca Paulista City, Sao Paulo State, Brazil
(*Entamoeba histolytica*; *Giardia lamblia*; *Entamoeba coli*; *Entamoeba* sp.; *Endolimax nana*; *Iodamoeba butschlii*; *Strongyloides stercoralis*; *Ancylostomidae*; *Ascaris lumbricoides*; *Trichuris trichiura*; *Enterobius vermicularis*; *Taenia* sp.; *Hymenolepis nana*)

Brazil

- Pinheiro, M. de F. da S.; et al., 1977, Acta Amazonica, v. 7 (4), 503-506
intestinal parasites of children: Manaus, Amazonas, Brazil
(*Trichocephalus trichiurus*; *Ascaris lumbricoides*; *Ancylostomidae*; *Strongyloides stercoralis*; *Enterobius vermicularis*; *Entamoeba coli*; *Giardia lamblia*; *Iodamoeba butschlii*; *Entamoeba histolytica*)

Brazil

- Rodrigues, E. C.; et al., 1972, Rev. Saude Pub., S. Paulo, v. 6 (4), 343-359
survey, health conditions of elementary school children, 89.4% of children examined had intestinal parasites, correlation with poor sanitation and living conditions: Sao Paulo City, Brazil
(*Ascaris lumbricoides*; *Trichocephalus trichiurus*; *Giardia lamblia*; *Ancylostoma duodenale*; *Strongyloides stercoralis*; *Enterobius vermicularis*; *Hymenolepis nana*; *Taenia*; *Entamoeba histolytica*; *E. coli*; *Schistosoma mansoni*)

Brazil

- Salata, E.; et al., 1972, Rev. Saude Pub., S. Paulo, v. 6 (4), 385-392
survey, prevalence of human intestinal parasites: Cecap, Botucatu County, Sao Paulo State, Brazil
(*Entamoeba histolytica*; *E. coli*; *Iodamoeba butschlii*; *Giardia lamblia*; *Ancylostomidae*; *Strongyloides stercoralis*; *Trichuris trichiura*; *Ascaris lumbricoides*; *Enterobius vermicularis*; *Hymenolepis nana*; *Taenia* sp.)

Brazil

- Satake, T.; Marques, J. R.; and Cicillini, G. A., 1976, Rev. Fac. Farm. e Odont. Ribeirao Preto, v. 13 (2), 147-150
occurrence of intestinal parasites in school children in Pitangueiras, Sao Paulo, Brazil
(*Giardia lamblia*; *ancilostomideos*; *A. lumbricoides*; *T. trichiurus*; *S. stercoralis*; *H. nana*; *E. vermicularis*; *S. mansoni*; *Taenia* sp.)

Breeds

Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 161-175

Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to moderate primary infection, concluded that genetic resistance operated primarily against worm establishment and was probably controlled by the immune response elicited, in heavy infections there was no correlation between worm establishment and haemoglobin type

Breeds

Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 177-187

Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to re-infection (either after primary infection was terminated with anthelmintic or challenge superimposed on existing adult infection), patterns of worm establishment and disease indicated that genetic factors operated in determining resistance, breed but not haemoglobin type appeared to be of some significance in 'self-cure'

Breeds

Aruo, S. K., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 223-227

Theileria parva, European breeds of cattle, clinical and pathological picture of East Coast fever: Uganda

Breeds

Buchwalder, R.; Hiepe, T.; and Israel, L., 1977, Monatsh. Vet.-Med., v. 32 (23), 898-901

Ascaridia galli, chickens (exper.), age and breed resistance

Breeds

Castelino, J. B.; and Preston, J. M., 1979, Brit. Vet. J., v. 135 (2), 198-203

Fasciola gigantica, cattle, influence of breed and age on prevalence, abattoir survey: Kenya

Breeds

Chakrabarti, A.; and Misra, S. K., 1979, Indian Vet. J., v. 56 (6), 497-500

Demodex canis, dogs, incidence in relation to season, host age, sex, and breed, clinical manifestations, in vivo and in vitro activity of several acaricides: India

Breeds

Cvetkovic, Lj.; et al., 1978, Acta Parasitol. Iugoslavica, v. 9 (2), 75-79

Haemonchus contortus-infected sheep, genetic resistance, cigaja breed more resistant to infection than merino breed

Breeds

Dargie, J. D.; et al., 1979, Research Vet. Sc., v. 26 (2), 245-247

Trypanosoma brucei, Ndama and Zebu cattle (exper.), blood volumes and erythrokinetics, susceptibility differences between breeds

Breeds

Dargie, J. D.; et al., 1979, Parasitology, v. 78 (3), 271-286

Trypanosoma congolense-infected Ndama and Zebu cattle, red cell kinetics, concluded that anemia and its underlying processes are broadly in line with number of parasites in blood and that superior resistance of Ndama cattle lies in ability to control parasitemia rather than capacity to mount more efficient erythropoietic response

Breeds

Dowling, D. F., 1978, Austral. Vet. J., v. 54 (1), 47 [Letter]

genetic breeding of tick-resistant cattle: Australia

Breeds

Esuruoso, G. O., 1975, Bull. Animal Health and Prod. Africa, v. 23 (3), 323-332

trypanosomiasis, Ndama cattle, observations on outbreaks, association with various epizootiological factors: western Nigeria

Breeds

Esuruoso, G. O., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 233-244

Trypanosoma vivax, Zebu vs. Muturu cattle (exper.), differences in innate resistance, comparison of haematological, clinical, and serological responses

Breeds

Garris, G. I.; et al., 1979, J. Econom. Entom., v. 72 (6), 869-872

Amblyomma americanum, infestations and biotic potential on Brahman and Hereford cattle compared under field conditions: eastern Oklahoma

Breeds

Griffin, L.; and Allonby, E. W., 1979, Vet. Parasitol., v. 5 (2-3), 97-105

Trypanosoma congolense, sheep, goats, susceptibility of various breeds to experimental infection

Breeds

Huhn, J., 1977, 3. Externe Veterinartagung, Ber. u. Arbeitsergebn. (40), 217-227

trypanosomiasis, cattle, possible mechanisms of tolerance, use of resistant breeds as control measure, economic importance: West Africa

Breeds

Kang, Y. B.; et al., 1977, Research Rep. Office Rural Develop., Min. Agric. and Fish., Korea (Vet. and Sericult.), v. 19, 33-39

Dictyocaulus viviparus, cattle, survey, regional and seasonal fluctuation, yearlings more susceptible to infection than other age groups, Korean native cattle more vulnerable than other breeds

Breeds

Kloosterman, A.; Albers, G. A. A.; and van den Brink, R., 1978, Vet. Parasitol., v. 4 (4), 353-368

Cooperia spp., half sib groups of Dutch Friesian calves (nat. and exper.), number and length of worms, egg output, serum antibodies, liveweight gain, concluded that within this breed genetic variation exists in resistance to *Cooperia* spp.

Breeds

Ladds, P. W.; Nitisuwirjo, S.; and Goddard, M. E., 1979, Austral. Vet. J., v. 55 (10), 455-462

Onchocerca gibsoni, slaughtered cattle, infection rate and nodule characteristics in relation to geographic region, season, breed, sex, and age of host: Australia

Breeds

Minar, J.; and Dorzh, C., 1970, Folia Parasitol., v. 17 (1), 91-92

Hypoderma spp., cattle, infestation in relation to host age and breed, geographical area, season, and method of breeding; rearing experiments: Mongolia

- Breeds**
Miron, C. A., 1978, *Agric. El Salvador*, v. 17 (1), 12-24
anaplasmosis, bovine, prevalence, complement fixation test, no difference in regard to age, sex or breed of host: San Miguel, El Salvador
- Breeds**
Nagar, S. K.; Saxena, V. K.; and Raizada, R. N., 1978, *Indian J. Animal Sc.*, v. 48 (3), 173-176
Boophilus microplus, 3 breeds of cattle, infestation rate, seasonal variation, breed susceptibility: Union Territory of Delhi
- Breeds**
Norman, L. M.; and Hohenboken, W., 1979, *J. Animal Sc.*, v. 48 (6), 1329-1337
parasites, foot soundness, and attrition, crossbred ewes, genetic and environmental effects (irrigated vs. nonirrigated pastures): western Oregon
- Breeds**
Preston, J. M.; and Allonby, E. W., 1978, *Vet. Rec.*, v. 103 (23), 509-512
Haemonchus contortus, comparison of susceptibility of 4 breeds of sheep and 3 breeds of goats to experimental infection while maintained on both high and low planes of nutrition: Kenya
- Breeds**
Preston, J. M.; and Allonby, E. W., 1979, *Research Vet. Sc.*, v. 26 (2), 134-139
Haemonchus contortus, relative resistance of 6 breeds of sheep: Kenya
- Breeds**
Rodriguez, O. N.; et al., 1978, *Rev. Cubana Cien. Vet.*, v. 9 (1), 87-94
Anaplasma marginale, Babesia argentina, B. bigemina, cattle of different breeds, serodiagnosis, complement fixation and capillary agglutination microtechniques: Cuba
- Breeds**
Rogers, R. J.; Blight, G. W.; and Knott, S. G., 1978, *Austral. Vet. J.*, v. 54 (3), 115-120
Anaplasma marginale in Bos taurus and B. indicus types, clinical outbreaks, serological survey, seasonal distribution, age, sex, and breed of host, high prevalence in Boophilus microplus infested areas: southern Queensland
- Breeds**
Ross, J. G.; and Halliday, W. G., 1979, *Internat. J. Parasitol.*, v. 9 (4), 281-284
Ostertagia circumcincta, Trichostrongylus colubriformis, sheep, immunity successfully transferred by 'Transfer Factor', donor and recipient of different breeds
- Breeds**
Sangster, N. C.; et al., 1979, *Research Vet. Sc.*, v. 27 (1), 106-110
Trichostrongylus colubriformis, Ostertagia circumcincta, Merino and crossbred sheep, field observations and preliminary critical trials showed varying degrees of drug resistance to levamisole hydrochloride, morantel tartrate, and thiabendazole; differences in infectivity and drug efficacy between breeds: Australia
- Breeds**
Stacey, B. R.; et al., 1978, *J. Econom. Entom.*, v. 71 (6), 967-970
Amblyomma maculatum, Hereford and Brahman steers, drylot conditions, weight gains and blood parameters, comparison between breeds and infested and uninfested steers
- Breeds**
Sutherst, R. W.; et al., 1979, *J. Applied Ecol.*, v. 16 (2), 359-382
Boophilus microplus, cattle, analysis of 3 control methods used separately and in combination (acaricides, pasture spelling, tick-resistant cattle), computer model of tick population: Australia
- Breeds**
Sutherst, R. W.; et al., 1979, *J. Applied Ecol.*, v. 16 (2), 397-403
Boophilus microplus, density-dependent mortality of ticks on cattle in relation to season, host sex, breed, and level of tick resistance
- Breeds**
Todd, K. S.; Mansfield, M. E.; and Levine, N. D., 1978, *Am. J. Vet. Research*, v. 39 (5), 865-866
Haemonchus contortus, Targhee lambs and Targhee-Barbados Black-Belly cross lambs (both exper.), no differences in resistance between the two breeds
- Breeds**
Toure, S. M.; et al., 1978, *Rev. Elevage et Med. Vet. Pays Trop.*, n. s., v. 31 (3), 293-313
Trypanosoma vivax, T. congolense, zebu and N'Dama cattle, pathology compared, N'Dama not as susceptible as zebu and some displayed a remarkable immunity: Missira, Senegal
- Breeds**
Tsang, C. L.; and Chen, K. H., 1977, *J. Chinese Soc. Vet. Sc.*, v. 3 (2), 9-13
Eimeria tenella, several breeds of chickens, resistance and susceptibility correlated with heredity: Taiwan
- Breeds**
Utech, K. B. W.; Seifert, G. W.; and Wharton, R. H., 1978, *Austral. J. Agric. Research*, v. 29 (2), 411-422
Boophilus microplus, resistance in selected Bos taurus and crossbred B. taurus x B. indicus, factors affecting resistance: age and sex of host, lactational status, pregnancy status, season, breed differences
- Breeds**
Utech, K. B. W.; Wharton, R. H.; and Kerr, J. D., 1978, *Austral. J. Agric. Research*, v. 29 (4), 885-895
Boophilus microplus, resistance levels in different breeds of cattle: Queensland
- Breeds**
Welch, J. S.; Dobson, C.; and Freeman, C., 1979, *Austral. Vet. J.*, v. 55 (6), 265-274
Dirofilaria immitis, Toxocara canis, dogs, epidemiological survey, host age, sex, and breed, immunodiagnosis (3 immunofluorescence tests, in vitro lymphocyte blastogenesis); prevalence of serum antibody in man proportional to incidence of canine infections: Queensland; Central Australia

Breeds

- Yazwinski, T. A.; et al., 1979, J. Animal Sc., v. 49 (4), 919-926
nematodes, resistance in various breeds of sheep (exper.)

Bronchitis

- MacKay, R. J.; and Urquhart, K. A., 1979, Equine Vet. J., v. 11 (2), 110-112
Dictyocaulus arnfieldi, presumptive diagnosis in 8 horses with eosinophilic bronchitis, infection confirmed in companion donkey, thiabendazole treatment, usefulness of cytology of tracheobronchial secretions in differential diagnosis

Bronchitis

- Pott, J. M.; Jones, R. M.; and Cornwell, R. L., 1978, Internat. J. Parasitol., v. 8 (5), 331-339

parasitic gastroenteritis and bronchitis in untreated grazing calves, epidemiology (pasture larval counts, fecal egg and larval counts, clinical assessment, weight gains, worm counts in tracer calves), evidence that resistance to Cooperia and Dictyocaulus was acquired more readily than to Ostertagia, inhibition of development of Ostertagia and Cooperia became evident at end of trial period

Bulgaria

- Rusev, B.; and Ianeva, I., 1976, Khidrobiologiya, Sofia, v. 3, 40-46
Hirudinea, review of species composition, distribution, and ecology: Bulgaria

Byelorussian SSR. See Russia, Belorussian SSR.

Calcification

- Baron, P. J.; and Appleton, T., 1977, Ztschr. Parasitenk., v. 53 (2), 239-246
 Ligula intestinalis, aging plerocercoid probably about 10 years old in Abramis brama, light and electron microscopy of strobila, calcification of tissue with microcrystals similar to microapatite crystals in vertebrate bone; chemical analysis; mineral deposits possibly arise from host metabolic process: Layer Pit, Essex

Calcification

- al-Ghorab, M. M.; et al., 1978, Urology, v. 11 (3), 303-305
 schistosomiasis, human, bilharzial contracted bladder, radiological findings, calcifications

Calcification

- Lehman, J. S., jr.; et al., 1971, Radiology, v. 98 (2), 379-380
 human mixed Schistosoma haematobium and S. mansoni infection, colonic calcification and polyposis diagnosed by radiologic examination, case report: Egypt

Calcification

- Mobedi, I.; Vand-Yoosefi, J.; and Esterabadi, A. H., 1978, Arch. Inst. Razi (30), 117-128
 Actinomyces bovis as possible cause for degeneration and calcification of Cysticercus bovis and hydatid cyst in host tissue

Calcification

- Shackelford, G. D.; and Kirks, D. R., 1977, Radiology, v. 122 (3), 753-757
 congenital toxoplasmosis in twin infants with secondary neonatal hepatic calcification, clinical case reports

Calcification

- Szczygiel, B., 1973, Przegl. Lek., v. 30 (9), 759-762
 Schistosoma haematobium, human genital organs, diagnosis and assessment of infections and calcifications using radiology

Calcification

- Szczygiel, B.; and Talfi, I., 1973, Przegl. Lek., v. 30 (8), 696-699
 Dracunculus medinensis, humans, radiological diagnosis of calcified guinea worms

Calcification

- Szczygiel, B.; and Talfi, I., 1974, Przegl. Lek., v. 31 (3), 413-415
 Loa loa, humans, diagnosis, visualization of calcified worms by radiography

California. See United States, California.

Canada

- Croll, N. A.; and Gyorkos, T. W., 1979, Canad. Med. Ass. J., v. 120 (3), 310-312
 extent of human parasitic diseases in Canada, analysis of new and previously published data provided from provincial laboratories and hospitals
 (Clonorchis sinensis; Trichuris trichiura; Ascaris lumbricoides; Necator americanus; Ancylostoma duodenale; Diphylobothrium latum; Enterobius vermicularis; Taenia saginata (Cysticercus bovis); Giardia lamblia; Entamoeba histolytica; acariasis; Trichomonas urogenitalis; malaria; toxoplasmosis; pediculosis; schistosomiasis; filariasis; trichinellosis; Chagas' disease; trypanosomiasis; leishmaniasis; hydatidosis)

Canada

- Ernst, C. H.; and Ernst, E. M., 1979, Bull. Maryland Herpetol. Soc., v. 15 (1), 1-15
 synopsis of protozoans parasitic in native turtles of the United States and Canada

Canada, Manitoba

- Sekla, L.; et al., 1978, Canad. J. Pub. Health, v. 69 (6), 475-480
 endemic and imported parasitic diseases, humans, pilot survey, fecal and serologic tests; cercarial dermatitis difficult to detect as recreational waters were treated with copper sulfate: Manitoba
 (Entamoeba histolytica; Giardia lamblia; Entamoeba coli; Entamoeba hartmanni; Trichuris trichiura; hookworm; Heterophyes)

Canada, Ontario

- Watson, T. G.; Freeman, R. S.; and Staszak, M., 1979, Canad. J. Pub. Health, v. 70 (3), 179-182
 intestinal parasites, native people, incidence by age-groups: Sioux Lookout Zone, northwestern Ontario
 (Entamoeba coli; Endolimax nana; Giardia lamblia; Entamoeba hartmanni; E. histolytica; Chilomastix mesnili; Dientamoeba fragilis; Iodamoeba buetschlii; Metorchis sp.; Diphylobothrium sp.; Enterobius vermicularis; Trichuris trichiura; Strongyloides stercoralis)

Canada, Saskatchewan

- Moteane, M.; Middleton, D. M.; and Polley, L. R., 1979, Canad. Vet. J., v. 20 (1), 2-7
 survey of disease conditions in adult and feeder sheep, brief description of diseases encountered: Saskatchewan, Canada
 (Melophagus ovinus; coccidiosis; sarcosporidiosis; Taenia hydatigena; Ostertagia; Haemonchus; Trichostrongylus; Nematodirus; Bunostomum; Strongyloides; Cooperia; Moniezia; Chabertia; Trichuris; Skrjabinema; Thysanosoma)

Cancer

- Awad, H. K.; et al., 1979, Cell and Tissue Kinet., v. 12 (5), 513-520
 carcinoma in Bilharzial bladder, cell proliferation, autoradiographic study

Cancer

- Bhagwande, S. B., 1976, South African Med. J., v. 50 (41), 1616-1620
 Schistosoma haematobium, human urinary infections, etiological role in bladder cancer critically examined: Zambia

Cancer

Bhamarapravati, N.; and Thamavit, W., 1978, *Lancet*, London (8057), v. 1, 206-207 [Letter]
Opisthorchis viverrini-infected Syrian golden hamsters, study of possible combined effects of presence of liver flukes and nitrosating agents in food stuffs in the genesis of intrahepatic bileduct neoplasms in certain human populations

Cancer

Brandalise, N. A.; et al., 1974, *Rev. Paul. Med.*, v. 83 (4), 169-172
 Chagas disease, man, development of esophageal carcinoma shortly after surgical repair of Chagasic megaesophagus, case report: Brazil

Cancer

Bygbjerg, I. C.; and Rask, M. P., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 54-55
Armillifer armillatus, abdominal pentastomiasis in man (in tumor of omentum, on peritoneum of intestines and abdominal wall) with associated cancer of colon, case report, infection possibly originated from drinking water contaminated by snakes or from eating snake or crocodile meat: Zaire

Cancer

Cabral, H. R., 1973, *Rev. Fac. Cien. Med. Univ. Nac. Cordoba*, v. 31 (3), 211-218
Trypanosoma cruzi, several hypotheses for the cancerolytic action of parasite on cancerous cells in mice

Cancer

Chhabra, M. B.; Mahajan, R. C.; and Mahajan, M. K., 1979, *Indian J. Med. Research*, v. 69, 746-751
Toxoplasma gondii, isolation from suspected human material by mouse inoculation, correlation between high serological titre and success in isolation, 4 of 6 isolations from lymph node biopsies were from patients with malignant disorders of lymphatics

Cancer

Coelho, L. H. M. R.; Carvalho, G.; and Carvalho, J. M., 1979, *Acta Cytol.*, v. 23 (1), 45-48
Schistosoma mansoni, women, carcinoma in situ, invasive squamous cell carcinoma, and benign cervical lesion of uterine cervix, case reports: Salvador and neighboring cities, state of Bahia

Cancer

Cohen, J.; and Spry, C. J. F., 1979, *Parasite Immunol.*, v. 1 (2), 167-178
Strongyloides stercoralis, West Indian man, associated small intestinal lymphoma causing obstruction, deficiency of T lymphocytes and eosinophils, lymphoma may have led to reduction in cellular immunity with subsequent development of *Strongyloides* hyperinfection

Cancer

Conley, F. K., 1979, *J. Nat. Cancer Inst.*, v. 63 (5), 1237-1244
Toxoplasma gondii infection or *Corynebacterium parvum* treatment, influence on incidence of tumor metastasis to mouse brain

Cancer

Dei Cas, E.; et al., 1979, *Lille Med.*, 3.s., v. 24 (9), 701-702
Entamoeba histolytica, 81-year-old woman, rectal amoebiasis associated with rectal neoplasm, case report: Nord de la France

Cancer

Edington, G. M., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 351-352 [Letter]
Schistosoma mansoni, humans, comments on primary liver cell carcinoma associated with schistosomiasis

Cancer

El Mofly, M. M., 1977, *Proc. 1. Conf. Biol. Aspects Saudi Arabia*, 246-256
Opalina ranarum in *Rana ribidunda*, use as biological test animals for detecting carcinogenic tryptophan metabolites

Cancer

Elsebai, I., 1978, *Urol. Research*, v. 6 (4), 233-236
 bilharziasis, human bladder infection, associated bladder cancer, current clinical management, pathology, treatment, and prognosis

Cancer

El-Sewedy, S. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 525-528
 bilharziasis, human, α -esterase activity in serum and urine, latter recommended as screening test for bilharzial bladder cancer

Cancer

El-Zoghby, S. M.; et al., 1978, *Acta Vitaminol. et Enzymol.*, v. 32 (1-4), 7-11
 schistosomal polyposis of large intestine, humans, increased β -glucuronidase activity not carcinogenic nor indicative of presence of malignancy

Cancer

Erturk, E.; Kalemli, M.; and Milli, U., 1978, *Vet. Fak. Dergisi, Ankara Univ.*, v. 25 (3), 458-465
Trichosomoides crassicauda, rats, causing hyperplasia and papillomatous proliferation of urinary bladder transitional epithelium, possible source of confusion in carcinogenesis experiments

Cancer

Gad-el-Mawla, N. M.; et al., 1978, *Cancer Treatment Rep.*, v. 62 (7), 993-996
 bilharzial bladder cancer, humans, chemotherapeutic management, phase II trial with hexamethylmelamine and VM-26: Egypt

Cancer

Gad-el-Mawla, N.; et al., 1978, *Cancer Treatment Rep.*, v. 62 (7), 1075-1076
 bilharzial bladder cancer, humans, phase II trial of methotrexate: Egypt; Zambia

Cancer

Gad-el-Mawla, N.; et al., 1978, *Cancer Treatment Rep.*, v. 62 (7), 1109-1110 [Letter]
 bilharzial bladder cancer, humans, phase II trial of bleomycin: Egypt

- Cancer**
 Ghoneim, M. A.; et al., 1979, Brit. J. Urol., v. 51 (6), 541-544
 schistosomiasis, human bladder, 138 cases surveyed after 5 years, tumor grade most important prognostic factor, most treatment failure due to local recurrence which developed early after treatment; preoperative radiation suggested for possible improvement of survival rate: Egypt
- Cancer**
 Harington, J. S., 1975, South African Med. J., v. 49 (12), 443-445
 cancer of human uterine cervix, etiology and epidemiology, includes information on *Trichomonas vaginalis*
- Cancer**
 Heinz, K. P. W., 1973, South African Med. J., v. 47 (39), 1795-1798
Entamoeba histolytica affecting female genital tract, case reports, clinical management, treatment, possible association with cervical carcinoma: South Africa
- Cancer**
 Horrobin, D. F.; and Karmali, R. A., 1979, Nature, London (5740), v. 282, 758
 effect of chloroquine on Epstein-Barr virus expression, response to comment of Lenoir, G.; and Geser, A., 1979, Nature, London (5740), v. 282, 758
- Cancer**
 Ivoghli, B., 1978, Vet. Med. and Small Animal Clin., v. 73 (1), 47-49
Spirocerca lupi, dogs, esophageal sarcomas, histopathology: Shiraz, Iran
- Cancer**
 Karmali, R. A.; et al., 1978, Nature, London (5679), v. 275, 444-445
 chloroquine enhances Epstein-Barr virus expression and may thus play important part in development of African Burkitt's lymphoma
- Cancer**
 Khafagy, E. Z.; El-Raziky, E. H.; and Galal, A. F., 1976, Egypt. J. Bilharz., v. 3 (2), 213-219
 human schistosomiasis, estimation of arylsulfatase A and B in infected subjects and normal controls, progressive increase in enzyme in both mansonii and haematobium infections, possible relationships between both types of parasitic infections and the etiology of schistosomal bladder cancer
- Cancer**
 Kim, Y. I.; Yang, D. H.; and Chang, K. R., 1974, Soul Uidae Chapchi (Seoul J. Med.), v. 15 (3), 247-255
Clonorchis sinensis, humans, possible relationship to cholangiocellular carcinoma of the liver, comparative evaluation of infected persons from areas of high and low endemicity: Pusan and Seoul areas of Korea
- Cancer**
 Koornpirochana, C.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 60-64
Opisthorchis viverrini, humans, clinico-pathologic findings, 154 autopsy cases, unusually high incidence of cholangiocarcinoma: Thailand
- Cancer**
 Kummeneje, K.; and Poppe, T. T., 1978, Acta Vet. Scand., v. 19 (1), 129-132
Oedemagena tarandi, reindeer, case of multiple cutaneous malignant lymphoma, probably immune reaction to parasitic larvae
- Cancer**
 Kuntz, R. E.; et al., 1978, Cancer Research, v. 38 (11, pt. 1), 3836-3839
Schistosoma haematobium, capuchin monkeys (*Cebus apella*), papillary lesions of urinary bladder, attempts to autologously and heterologously transfer bladder lesions
- Cancer**
 Lenoir, G.; and Geser, A., 1979, Nature, London (5740), v. 282, 758
 effect of chloroquine on Epstein-Barr virus expression and on development of Burkitt's lymphoma, comment on Karmali, R. A.; et al., 1978, Nature, London (5679), v. 275, 444-445
- Cancer**
 Merino, F.; and Luis, J., 1979, Immunol. Commun., v. 8 (4), 457-468
Leishmania braziliensis, effect of peritoneal macrophages from mice injected with parasites on in vitro growth of tumor cells
- Cancer**
 Mott, K. E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 552-553 [Letter]
Schistosoma mansoni, *S. japonicum*, human, possible relationship with liver carcinoma
- Cancer**
 Nkrumah, F. K.; Sulzer, A. J.; and Maddison, S. E., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 91-95
 children with Burkitt's lymphoma, serum immunoglobulin levels, specific antibody titers to *Plasmodium falciparum* and *P. malariae*
- Cancer**
 Nunn, J. R.; et al., 1974, South African J. Med. Sc., v. 39 (4), 179-182
Trichomonas vaginalis, 4 nitrosamines detected in infected human vaginal discharges, *Trichomonas*-negative samples showed no significant amounts of nitrosamines, inconclusive as to whether findings implicate parasite in production of these potential carcinogens: Johannesburg
- Cancer**
 Oyasu, R.; and Hopp, M. L., 1974, Surg., Gynec. and Obst., v. 138 (1), 97-108
 etiology of bladder cancer, humans, includes possible relationship of *Schistosoma haematobium*
- Cancer**
 Pasternak, J.; Amato Neto, V.; and Levi, G. C., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (4), 297-301
Toxoplasma gondii, increased risk of toxoplasmosis in immunosuppressed patients with malignant lympho-reticulo-endothelial diseases
- Cancer**
 Pieterse, H. F., 1973, South African Med. J., v. 47 (45), 2148 [Letter]
 vesical bilharziasis, children, presenting symptoms and provisional diagnosis of sarcoma botryoides, case reports: South West Africa

Cancer

- Rosol, M.; Havel, V.; and Andrys, J., 1973, Sborn. Ved. Praci Lek. Fak. Karlovy Univ. Hradci Kralove, Suppl., v. 15 (2), 141-144
Trichomonas, human, differential diagnosis, discussion of possible involvement in pre-cancerous lesions and carcinomas of the cervix uteri

Cancer

- Sherif, M., 1978, Urol. Research, v. 6 (4), 237-239
 bilharziasis, human bladder infection with associated bladder cancer, comprehensive protocol for management using radiotherapy as adjuvant to surgery and screening large numbers of chemotherapeutic agents

Cancer

- Sonakul, D.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 215-219
Opisthorchis viverrini, human, association with primary hepatic carcinoma, autopsy survey: Thailand

Cancer

- Stitnimankarn, T.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 558-567
Opisthorchis viverrini, humans, ultrastructure of associated cholangiocarcinoma: Thailand

Cancer

- Sukhareva-Nemakova, N. N.; et al., 1977, Moscow Univ. Biol. Sc. Bull., v. 32 (2), 43-48
Trypanosoma cruzi, fatty acid and amino acid composition of cruzin and trypanosa (anti-tumor preparations which are metabolic products of this protozoan)

Cancer

- Thamavit, W.; et al., 1978, Cancer Research, v. 38 (12), 4634-4639
Opisthorchis viverrini-infected Syrian golden hamsters (exper.), effects of dimethylnitrosamine on induction of cholangiocarcinoma and cholangiofibrosis

Cancer

- Wyburn-Mason, R., 1979, Med. Hypotheses, v. 5 (11), 1237-1249
Naegleria, possible cause of rheumatoid disease and many human cancers through chronic antigenic stimulation by the *Naegleria*, review of new medical concept

Cancer

- Yong, W. K.; Heath, D. D.; and Savage, T., 1979, Brit. Med. J. (6176), v. 1, 1463-1464
Echinococcus granulosus, man with positive immunoelectrophoresis test for hydatidosis, later diagnosed as pulmonary carcinoma, possible antigenic similarity: New Zealand

Cannibalism

- Londono M., I., 1975, Rev. Colomb. Entom., v. 1 (2-3), 27-37
Dipetalonema viteae, larval migration and distribution in *Ornithodoros tartakowskyi*, elimination of nematode larvae in tick coxal fluid may prevent hyperinfection, cannibalism transmits nematodes among ticks

Carbohydrates. [See also Biochemistry; Metabolism]

Carbohydrates

- Bunn, M. M.; et al., 1977, Ztschr. Parasitenk., v. 52 (3), 245-256
Herpetomonas samuelpessoai in vitro, 2-deoxy-D-glucose (2-DG) inhibits growth and respiration, modifies ultrastructure of cells; some carbohydrates decrease effect of 2-DG

Carbohydrates

- Chen, S. N.; and Howells, R. E., 1979, Parasitology, v. 78 (3), 343-354
Brugia pahangi, infective larvae, juveniles, adults, uptake in vitro of dyes, monosaccharides, and amino acids, no evidence for oral uptake, transcuticular route of uptake may be employed

Carbohydrates

- Cornford, E. M.; and Oldendorf, W. H., 1979, J. Parasitol., v. 65 (3), 357-363
Schistosoma mansoni, new method for measuring transintestinal uptake in individual male and female worms, application to uptake of glucose and selected amino acids

Carbohydrates

- Gruenberg, J.; Sharma, P. R.; and Deshusses, J., 1978, European J. Biochem., v. 89 (2), 461-469
Trypanosoma brucei, D-glucose transport

Carbohydrates

- Harley, J. P.; and Moore, G., 1974, Acta Parasitol. Polon., v. 22 (1-11), 25-27
Trichinella spiralis, Alcian blue histochemistry of cyst wall in mouse, consists of outer acid mucopolysaccharide layer bound to sulfated collagen

Carbohydrates

- Koshkina, L. A., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 82-86
Ascaridia galli, in vitro glucose uptake greater in worms from vaccinated chicks than in those from unvaccinated chicks, increased parasite surface permeability possibly related to increased host immunity

Carbohydrates

- Mason, P. R.; and Fripp, P. J., 1977, Ztschr. Parasitenk., v. 53 (3), 287-295
Schistosoma mansoni miracidia, effect of sugars, fatty acids, amino acids, and snail excretion products on activity, some effects concentration dependent and pH dependent; possible role for chemo-klinokinetic behavior patterns in miracidial host location

Carbohydrates

- Matsuzawa, T., 1979, Japan. Poultry Sc., v. 16 (3), 137-140
Eimeria tenella, chicks, carbohydrate in host diet, effect on infection

Carbohydrates

- Matsuzawa, T., 1979, Poultry Science, v. 58 (4), 1007-1008
Eimeria tenella in chicken ceca, incorporation of H^3 -glucose, electron microscope autoradiography

Carbohydrates

Nesheim, M. C.; et al., 1978, Proc. Roy. Soc. London, S. B, Biol. Sc. (1148), v. 202, 399-408

Moniliformis dubius-infected vs. uninfected rats fed isoenergetic diets containing varying amounts of starch, host and parasite growth

Carbohydrates

Podesta, R. B., 1979, J. Parasitol., v. 65 (4), 669-671

Hymenolepis diminuta, galactose influx by tissue slices, cellular Na⁺ and ATP effects

Carbohydrates

Rutherford, T. A.; Webster, J. M.; and Barlow, J. S., 1977, Canad. J. Zool., v. 55 (11), 1773-1781

Mermis nigrescens, parasitic larval stages, physiology of glucose and amino acid uptake in vitro

Carbohydrates

Simpson, L., 1978, J. Parasitol., v. 64 (2), 360

Trypanosoma brucei, glucose-sensitive culture strain

Carbohydrates

Simpson, M. G.; and Laurence, B. R., 1979, J. Parasitol., v. 65 (5), 732-736

Brugia pateri, incorporation of radioactive precursors into filarial larvae developing in susceptible vs. refractory mosquito species and into mosquito flight muscle

Carbohydrates

Srivastava, M.; and Gupta, S. P., 1977, Ztschr. Parasitenk., v. 52 (1), 61-68

Isoparorchis hypselobagri adults, in vitro survival in various salt solutions and with addition of various sugars; carbohydrates absorbed through cuticle, pH 9 optimum

Carbohydrates

Uglen, G. D.; Love, R. D.; and Eubank, J. H., 1978, Exper. Parasitol., v. 45 (1), 88-92

Hymenolepis diminuta, membrane transport of glucose and β -methylglucoside, value of using β -methylglucoside to study mechanism of hexose transport and accumulation in this parasite

Carbohydrates, Host

Arakcheeva, S. G.; Zubitskaia, M. A.; and Isaeva, Kh. B., 1976, Med. Parazit. i Parasitar. Bolezni, v. 45 (1), 81-84

Hymenolepis nana, mice, comparative histochemical study of nucleic acids, carbohydrates, and alkaline phosphatase in parasite and in host

Carbohydrates, Host

Bogush, A. A.; and Pyshko, I. I., 1976, Vet. Nauka--Proizvod., Trudy, Minsk, v. 14, 173-174
[Sarcocystis]-infected swine, glycogen content in muscles and liver

Carbohydrates, Host

D'iakova, T. E.; and Leutskaia, Z. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 52-59

Ascaridia galli, immunization of normal chickens and chickens with avitaminosis A, mucopolysaccharide content in tissues compared with unimmunized controls

Carbohydrates, Host

Fabia, F.; et al., 1979, Ann. Parasitol., v. 54 (1), 1-10

Plasmodium chabaudi-infected mice, increase in sialic acids, neutral hexoses, and fucose on surface of red blood cells, coincides with reticulocytosis

Carbohydrates, Host

Gordon, R.; et al., 1978, Parasitology, v. 77 (3), 367-374

Neomesomermis fluminalis in Prosimulium mixtum/fuscum and Simulium venustum, effects of parasitism on hemolymph composition (protein, amino acid, carbohydrate), relation to nematode's nutritional requirements

Carbohydrates, Host

Jablonowska, C.; and Jablonowski, Z., 1974, Acta Parasitol. Polon., v. 22 (12-21), 249-259
Ascaris suum and vitamin C deficiency, effect on levels of glucose and acid-soluble phosphate compounds in blood of guinea pigs

Carbohydrates, Host

Kameswari, M.; Ramulu, G. R.; and Rao, L. N., 1979, Indian J. Exper. Biol., v. 17 (9), 976-979

helminth-infected Rana tigerina, macromolecular changes in liver

Carbohydrates, Host

Karyakarte, P. P.; and Yadav, B. B., 1976, Marathwada Univ. J. Sc. (Nat. Sc.), v. 15 (8), 97-99

amphistome larvae, glycogen deposition in hepatopancreas of Indoplanorbis exustus, histochemistry

Carbohydrates, Host

Kublitskine, O.; et al., 1976, Med. Parazit. i Parasitar. Bolezni, v. 45 (2), 153-157
Echinococcus granulosus, effects on rats (plasmocyte reaction, antibody in serum, liver glycogen content, serum transaminase)

Carbohydrates, Host

Low-Jinde, L., 1979, J. Fish Biol., v. 14 (3), 297-302

Cryptobia salmositica in Salmo gairdneri (exper.), plasma glucose and proteins and haematocrit levels during course of infection, changes produced in host metabolism will undoubtedly affect host growth and population size

Carbohydrates, Host

Mack, S. R.; Samuels, S.; and Vanderberg, J. P., 1979, J. Parasitol., v. 65 (2), 217-221
Plasmodium berghei-infected and noninfected Anopheles stephensi, carbohydrates in hemolymph

Carbohydrates, Host

Mahajan, C. L.; et al., 1979, J. Fish Dis., v. 2 (6), 519-528
Isoparorchis hypselobagri-infected Channa punctatus, morphological, behavioural, biochemical, and haematological changes, possible human health hazard: reservoir (Khookas bundh) about 20 km north of Jaipur

Carbohydrates, Host

- Mel'nikova, K. V., 1972, *Parazitologiya*, Leningrad, v. 6 (6), 549-554
Ascarops strongylina, pigs (exper.), accumulation of acid and neutral mucopolysaccharides in gastric mucosa in relation to duration of invasion, possible protective role and significance in pathogenesis of acute and chronic disease

Carbohydrates, Host

- Mohamed, A. M., 1977, *Egypt. J. Bilharz.*, v. 4 (2), 187-194
Trichobilharzia ocellata-infected *Lymnaea stagnalis*, increased growth rate, reduced tissue glycogen, shifts toward anaerobiosis

Carbohydrates, Host

- Momen, H., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 117-121
Plasmodium, *Babesia* and *Anthemiosoma* spp., comparative study of glucose catabolism by infected mouse erythrocytes, glucose utilization and lactate production of parasites

Carbohydrates, Host

- Mustaikis, B.; and Medzevicius, A., 1978, *Lietuvos TSR Moks. Akad. Darbai*, s. C (82), (2), 75-83
Trichocephalus suis, suckling pigs, influence of amylosubtylene on host carbohydrate metabolism

Carbohydrates, Host

- Nadakal, A. M.; and Nair, K. V., 1979, *Indian J. Exper. Biol.*, v. 17 (3), 310-311
Raillietina tetragona-infected domestic fowl, disturbances of carbohydrate metabolism

Carbohydrates, Host

- Noblet, G. P.; and Turk, D. E., 1979, *Poultry Science*, v. 58 (2), 392-403
Eimeria spp., chicks (exper.), no interference with overall intestinal absorption of ^{14}C -glucose, results suggest probable compensatory absorption by sections of intestine unaffected by a specific coccidial infection

Carbohydrates, Host

- Pappas, P. W., 1978, *J. Parasitol.*, v. 64 (2), 265-272
Hymenolepis microstoma-infected mice, biochemical alterations in liver, spleen, small intestine, and bile ducts, data indicate that all organs undergo significant hyperplasia and that deposition of collagen does not make significant contribution to process of organ growth

Carbohydrates, Host

- Przyjalkowski, Z.; and Malinowska, A., 1977, *Acta Parasitol. Polon.*, v. 25 (1-10), 69-77
Trichinella spiralis-infected germfree vs. conventional mice, some metabolites and enzymes of carbohydrate metabolism in liver and small intestine

Carbohydrates, Host

- Przyjalkowski, Z.; and Malinowska, A., 1977, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 25 (2), 95-100
Trichinella spiralis, conventional and bi-associated (with *Staphylococcus epidermidis* and *Escherichia coli*) mice, carbohydrate metabolism in livers and intestines, metabolite levels, enzyme activities

Carbohydrates, Host

- Rutherford, T. A.; and Webster, J. M., 1978, *Canad. J. Zool.*, v. 56 (2), 339-347
Mermis nigrescens-infected *Schistocerca gregaria*, trehalose, glucose, free amino acid, and lipid fatty acid composition of hemolymph

Carbohydrates, Host

- Stewart, G. L., 1976, *Rice Univ. Studies*, v. 62 (4), 211-224
Trichinella spiralis, mice, biochemical pathology: changes in liver and muscle glycogen and some blood chemical parameters

Carbohydrates, Host

- Strazhnik, L. V.; and Davydov, O. N., 1975, *Parazitologiya*, Leningrad, v. 9 (1), 37-46
 3 spp. of fish cestodes, glycogen content of parasites and host tissues, seasonal changes in glycogen content of parasites; effect of experimental exposure to various temperatures on parasite glycogen content, motor activity, and duration of life; effect of starvation on glycogen content of parasite and host in aquariums at various temperatures

Carbohydrates, Host

- Venkata Rama Krishna, G.; and Simha, S. S., 1977, *Comp. Physiol. and Ecol.*, v. 2 (4), 242-244
 larval trematodes, depletion of carbohydrate reserves in *Lymnaea luteola* f. *typica*: Kakatiya Univ., Warangal, A. P., India

Carbohydrates, Host

- Venkateswara Rao, P.; and Onnurappa, J., 1979, *Indian J. Exper. Biol.*, v. 17 (3), 294-297
Lymnaea luteola vs. *Pila globosa*, qualitative analysis of simple sugars, tissue respiration, possible relationship to capacity to harbor larval trematode infections

Carbohydrates, Host

- Widera, L., 1976, *Med. Wet.*, v. 32 (10), 630-631
Kudoa-infected *Merluccius merluccius*, mucopolysaccharide changes in the muscles

Carbohydrates, Parasite

- Ahn, J.-H.; and Seo, B. S., 1972, *Soul Uidae Chapchi* (Seoul J. Med.), v. 13 (4), 235-242
Paragonimus westermani, *Eurytrema pancreaticum*, paper chromatographic analysis of carbohydrate metabolism, determination of amino acid fractions and other metabolites

Carbohydrates, Parasite

- Alves, M. J. M.; et al., 1979, *FEBS Letters*, v. 99 (1), 81-85
Trypanosoma cruzi epimastigote forms, evidence for plasma membrane localization and antigenic nature of carbohydrate-containing macromolecules

Carbohydrates, Parasite

- Anwar, N.; et al., 1977, *Ztschr. Parasitenk.*, v. 54 (1), 79-82
Litomosoides carinii, comparative uptake of labelled hexoses and synthesis of macromolecules

- Carbohydrates, Parasite
Anyá, A. O.; and Umezurike, G. M., 1978, Parasitology, v. 76 (1), 21-27
Rhabdias bufonis, respiration and carbohydrate energy metabolism
- Carbohydrates, Parasite
Arakcheeva, S. G.; Zubitskaia, M. A.; and Isaeva, Kh. B., 1976, Med. Parazitol. i Parasitar. Bolezni, v. 45 (1), 81-84
Hymenolepis nana, mice, comparative histochemical study of nucleic acids, carbohydrates, and alkaline phosphatase in parasite and in host
- Carbohydrates, Parasite
Arme, C.; and Walkey, M., 1970, Symposia Brit. Soc. Parasitol., v. 8, 79-101
physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)
- Carbohydrates, Parasite
Barker, R. J.; and Lehner, Y., 1976, J. Med. Entom., v. 13 (3), 379-380
Rhipicephalus sanguineus, *Dermacentor andersoni*, hemolymph sugar content analyzed
- Carbohydrates, Parasite
Beis, I.; and Barrett, J., 1979, Internat. J. Parasitol., v. 9 (5), 465-468
Schistocephalus solidus, activated and non-activated plerocercoids, contents of adenine nucleotides and glycolytic and tricarboxylic acid cycle intermediates
- Carbohydrates, Parasite
Bogoiavlenskii, Iu. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 5-11
micromorphological structure and function of hypodermis of various groups of nematodes, functions include: support of somatic musculature and nerves, production of cuticle, storage place for nutrients (fats and glycogen), and barrier against harmful substances
- Carbohydrates, Parasite
Borozdina, N. I., 1971, Parazitologiya, Leningrad, v. 5 (5), 408-412
Oedemagena tarandi, 2nd and 3rd instar larvae, content of water, dry matter, fat, glycogen, total nitrogen, and protein, dynamics of accumulation and consumption of these energy reserves
- Carbohydrates, Parasite
Borozdina, N. I., 1974, Parazitologiya, Leningrad, v. 8 (5), 438-446
Oedemagena tarandi, 2nd and 3rd stage larvae, age-related changes in content of moisture, dry matter, fat, glycogen, total nitrogen, and protein
- Carbohydrates, Parasite
Brohn, F. H.; and Clarkson, A. B., jr., 1978, Acta Trop., v. 35 (1), 23-33
Trypanosoma brucei brucei, effect of glycerol on anaerobic glycolysis in vitro, concomitant administration of salicylhydroxamic acid and glycerol to infected rats results in rapid clearance of parasitemia
- Carbohydrates, Parasite
Cordeiro, M. N.; and Gazzinelli, G., 1979, Exper. Parasitol., v. 48 (3), 337-344
Schistosoma mansoni, protein and glycoprotein composition of tegument with respect to age, sex, and host origin, resolution and molecular weight estimates by polyacrylamide gel electrophoresis
- Carbohydrates, Parasite
Cossey, A.; Dimichiel, A.; and Dunstone, J., 1979, European J. Biochem., v. 98 (1), 53-60
sheep hydatid-cyst fluid, isolation and characterization of glycoproteins with blood group P₁ activity using equilibrium density-gradient ultracentrifugation
- Carbohydrates, Parasite
Cross, G. A. M., 1977, Ann. Soc. Belg. Med. Trop., v. 57 (4-5), 389-402
[Trypanosoma] spp., identification, purification, and characterization of class of surface glycoproteins which appear to be primary mediators of antigenic variations
- Carbohydrates, Parasite
Davydov, V. G., 1975, Inform. Biul. Inst. Biol. Vnutren. Vod, Akad. Nauk SSSR (27), 17-20
Trienophorus nodulosus, localization and dynamics of glycogen and lipids in all developmental stages
- Carbohydrates, Parasite
Decker-Jackson, J. E.; and Honigberg, B. M., 1978, J. Protozool., v. 25 (4), 514-525
Leishmania donovani, antigenically active glycoproteins released by parasites: immunologic properties and relationships with Mycobacterium antigens and human red cell antigens; preliminary biochemical analysis; possible involvement in pathogenesis of kala azar
- Carbohydrates, Parasite
Desser, S. S.; and Paterson, W. B., 1978, J. Protozool., v. 25 (3, pt. 2), 314-326
Myxobolus sp. in *Notropis cornutus*, spores and various stages of sporogenesis, ultrastructural and cytochemical observations
- Carbohydrates, Parasite
Dubinsky, P.; et al., 1979, Biologia, Bratislava, s. B, Zool. (2), v. 34 (5), 369-375
Ascaris suum, fertilization, influence on glycogen content of muscles and glycogen distribution in ovaries and uteri
- Carbohydrates, Parasite
Esteves, M. J. G.; et al., 1979, European J. Cell Biol., v. 20 (1), 113-115
Herpetomonas samuelpessoai, membrane-associated polysaccharides, influence of growth conditions
- Carbohydrates, Parasite
Frayha, G. J.; et al., 1974, J. Med. Entom., v. 11 (2), 168-172
Ornithodoros savignyi, rats (exper.), chemical composition of coxal fluid (electrolytes, amino acids, proteins, nucleic acids, carbohydrates, lipids), results confirm osmoregulatory role of coxal organs; sucrose detected in coxal fluid, first report in any animal tissue

- Carbohydrates, Parasite
Ginetsinskaia, T. A.; et al., 1971, *Parazitologia*, Leningrad, v. 5 (2), 147-154
platyhelminths (47 species), glycogen and fat distribution in yolk glands and complex eggs, accumulation of reserve substances in yolk glands appears to vary with type of egg development (in external environment vs. in uterus of parent), digenetic trematodes accumulate only glycogen and not fat
- Carbohydrates, Parasite
Gorin, P. A. J.; et al., 1979, *J. Protozool.*, v. 26 (3), 473-478
Crithidia fasciculata, D-mannan and D-arabino-D-galactan, structure, changes in proportion with age of culture
- Carbohydrates, Parasite
Gottlieb, M., 1978, *Biochim. et Biophys. Acta*, v. 541 (4), 444-458
Crithidia fasciculata, carbohydrates, further characterization of previously identified mannan, isolation and partial characterization of arabinose- and galactose-containing polysaccharide, immunological evidence suggests cell surface nature of arabinogalactan
- Carbohydrates, Parasite
Gottlieb, M., 1978, *Exper. Parasitol.*, v. 45 (2), 200-207
Trypanosoma cruzi, identification of an immunogenic cell surface polysaccharide
- Carbohydrates, Parasite
Gress, F. M.; and Lumsden, R. D., 1976, *Rice Univ. Studies*, v. 62 (4), 111-143
Paragonimus kellicotti, tegumental surface membrane, fine structure, topochemistry (rich in acidic carbohydrate), possible relationship to ability of flukes to survive in immunocompetent host
- Carbohydrates, Parasite
Gupta, S. P.; and Srivastava, M., [1979], *An. Inst. Biol., Univ. Nac. Mexico*, v. 48 (1), s. Zool., 1977, 27-36
Isoparorchis hypselobagri, distribution and amount of glycogen in unstarved, starved, and starved/refed parasites, resynthesis, biochemical and histochemical studies
- Carbohydrates, Parasite
Gutteridge, W. E.; and Coombs, G. H., 1977, *Biochemistry of parasitic protozoa*, 172 pp., illus.
biochemistry of parasitic protozoa, textbook: methodology; catabolism and generation of energy; nucleic acid metabolism; protein metabolism; lipid metabolism; biochemical mechanism of drug action; isolation of parasitic protozoa from infected animals; culture of parasitic protozoa
- Carbohydrates, Parasite
Halton, D. W.; and Hendrix, S. S., 1978, *Ztschr. Parasitenk.*, v. 57 (3), 237-241
Lobatostoma ringens, chemical composition and histochemistry
- Carbohydrates, Parasite
Ishikawa, M.; and Yamada, K., 1976, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 25 (3), 161-169
Ascaris suum, bushy cells, polysaccharide cytochemistry
- Carbohydrates, Parasite
Jackson, P. R.; Honigberg, B. M.; and Holt, S. C., 1978, *J. Protozool.*, v. 25 (4), 471-481
Trypanosoma congolense, bloodstream trypomastigotes and culture procyclics, lectin analysis of surface saccharides by agglutination and electron microscopic techniques
- Carbohydrates, Parasite
Johnson, J. G.; and Cross, G. A. M., 1979, *Biochem. J.*, v. 178 (3), 689-697
Trypanosoma brucei, selective cleavage of variant surface glycoproteins
- Carbohydrates, Parasite
Karyakarte, P. P.; Baheti, S.; and Chawda, D. B., 1976, *Marathwada Univ. J. Sc. (Nat. Sc.)*, v. 15 (8), 93-95
Tremiorchis ranarum from *Rana cyanophlyctis*, carbohydrate metabolism, glycogen content, before and after starvation, lactic acid analysis
- Carbohydrates, Parasite
Karyakarte, P. P.; Chawda, D. B.; and Simant, S. C., 1976, *Marathwada Univ. J. Sc. (Nat. Sc.)*, v. 15 (8), 89-92
Mehraorchis ranarum from *Rana cyanophlyctis*, carbohydrate metabolism, glycogen content, before and after starvation, lactic acid analysis
- Carbohydrates, Parasite
Katzin, A. M.; et al., 1979, *Medicina, Buenos Aires*, v. 39 (1), Jan.-Feb., 76-84
Trypanosoma cruzi epimastigotes, lectins used to investigate existence, localization and distribution of saccharides on parasite surfaces, possible use in differentiating species or strains as well as parasite stages
- Carbohydrates, Parasite
Ketteridge, D. S., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 101-102
Trypanosoma cruzi, extraction and assay of lipopolysaccharide from parasite, possible endotoxic properties
- Carbohydrates, Parasite
Klochkova, V. I.; Vykhrestyuk, N. P.; and Burenina, E. A., 1978, *Zhurnal Evoliuts. Biohim. i Fiziol.*, v. 14 (6), 533-537
Eurytrema pancreaticum, glycolytic pathways
- Carbohydrates, Parasite
Knowles, W. J.; and Oaks, J. A., 1979, *J. Parasitol.*, v. 65 (5), 715-731
Hymenolepis diminuta, brush border plasma membrane, isolation and partial biochemical characterization
- Carbohydrates, Parasite
Kuhn, O.; and Tobler, H., 1978, *Biochim. et Biophys. Acta*, v. 521 (1), 251-266
Ascaris lumbricoides (var. *suum*), oocytes, zygotes, larvae, spermatids, quantitative analysis of RNA, glycogen, and nucleotides
- Carbohydrates, Parasite
Lakhonina, G., 1978, *Eesti NSV Teaduste Akad. Toimetised*, v. 27, *Biol. ser.* (1), 47-54
Giardia, culture in solid medium; saccharolytic activity

- Carbohydrates, Parasite
de Lederkremer, R. M.; et al., 1978, Biochem. and Biophys. Research Commun., v. 85 (4), 1268-1274
Trypanosoma cruzi, ceramide and inositol content of the lipopeptidophosphoglycan isolated from whole cells of epimastigote forms
- Carbohydrates, Parasite
Lo, H. S.; and Reeves, R. E., 1978, Biochem. J., v. 171 (1), 225-230
Entamoeba histolytica, pyruvate-to-ethanol pathway
- Carbohydrates, Parasite
McDaniel, J. S.; MacInnis, A. J.; and Read, C. P., 1976, Rice Univ. Studies, v. 62 (4), 205-209
flatworms (free-living, symbiotic, parasitic), effects of carbon dioxide on glucose incorporation, results suggest that rates of glycogen synthesis in some flatworms vary with level of available carbon dioxide in the environment
- Carbohydrates, Parasite
Machnicka-Roguska, B., 1970, Acta Parasitol. Polon., v. 18 (13-26), 267-276
Moniezia expansa antigens, isolation and chemical analysis
- Carbohydrates, Parasite
McManus, D. P.; and Smyth, J. D., 1978, Parasitology, v. 77 (1), 103-109
Echinococcus granulosus (horse and sheep strains), E. multilocularis, differences in chemical composition and carbohydrate metabolism between species and strains
- Carbohydrates, Parasite
Mendonca-Previato, L.; Gorin, P. A. J.; and Previato, J. O., 1979, Biochemistry, Washington, v. 18 (1), 149-154
Herpetomonas samuelpessoai, polysaccharide components of cells grown on various culture media, possible role of certain polysaccharides in immunogenic terms
- Carbohydrates, Parasite
Moczon, T., 1975, Acta Parasitol. Polon., v. 23 (1-11), 135-145
Hymenolepis diminuta, mature specimens, distribution of glycogen and of radioactive compounds accumulated in tissues after incubation in glucose- $^{14}\text{C}_{1-6}$
- Carbohydrates, Parasite
Moczon, T., 1975, Acta Parasitol. Polon., v. 23 (41-51), 569-592
Hymenolepis diminuta, histochemical localization of enzymes of glycogen metabolism in tissues of mature parasites
- Carbohydrates, Parasite
Moczon, T., 1977, Acta Parasitol. Polon., v. 24 (20-27), 269-274
Hymenolepis diminuta, oncospheres and cysticercoids, glycogen distribution, accumulation of radioactive compounds after incubation in glucose- $^{14}\text{C}_{1-6}$
- Carbohydrates, Parasite
Moczon, T., 1977, Acta Parasitol. Polon., v. 24 (20-27), 275-282
Hymenolepis diminuta, oncospheres and cysticercoids, enzymes of glycogen metabolism
- Carbohydrates, Parasite
Moczon, T., 1977, Acta Parasitol. Polon., v. 25 (1-10), 45-54
Hymenolepis diminuta, mature cestodes, oncospheres, cysticercoids, histochemical localization of enzymes of glycogen metabolism
- Carbohydrates, Parasite
Mohsin, S.; and Farooqi, H. U., 1979, Geobios, v. 6 (2), 60-63
Pallisentis ophiocephali, histochemical observations on localization of glycogen, proteins, acid mucopolysaccharides and lipids
- Carbohydrates, Parasite
Momen, H., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 117-121
Plasmodium, Babesia and Anthemosoma spp., comparative study of glucose catabolism by infected mouse erythrocytes, glucose utilization and lactate production of parasites
- Carbohydrates, Parasite
Murrell, K. D.; et al., 1978, Exper. Parasitology, v. 46 (2), 247-255
Schistosoma mansoni, analysis of tegumental surface membrane carbohydrates using lectins
- Carbohydrates, Parasite
Nielsen, K.; et al., 1978, Canad. J. Comp. Med., v. 42 (1), 74-79
Trypanosoma lewisi, complement activating factor(s), physiochemical characteristics of active components (carbohydrate-containing substance and lipid, possibly glyco lipid)
- Carbohydrates, Parasite
Parshad, V. R.; and Guraya, S. S., 1977, Ztschr. Parasitenk., v. 52 (1), 81-89
Ascaridia galli, Cotylophoron cotylophorum, Raillietina cesticillus, histochemistry of excretory systems, localization of lipids, carbohydrates, and hydrolytic enzymes; substance transportation and ionic regulation discussed
- Carbohydrates, Parasite
Parshad, V. R.; and Guraya, S. S., 1978, J. Helminth., v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients
- Carbohydrates, Parasite
Philippe, M.; et al., 1979, Biol. Cell., v. 35 (2), 165-174
Gregarina blaberae, glycoconjugates of cell surface studied by carbohydrate cytochemistry and biochemistry on isolated 'ghost' fraction
- Carbohydrates, Parasite
Podlipaev, S. A., 1974, Parazitologiya, Leningrad, v. 8 (6), 535-542
Myxobolidae spp., polysaccharides in spores, nature of iodophilous vacuole

Carbohydrates, Parasite

- Premvati, G.; and Chopra, A. K., 1979, *Parasitology*, v. 78 (3), 355-359
Haemonchus contortus, *Oesophagostomum columbianum*, *Trichuris ovis*, in vitro glycogen content under aerobic conditions, differences between females and males and among species, rate of change with time

Carbohydrates, Parasite

- Previato, J. O.; Mendonca-Previato, L.; and Gorin, P. A. J., 1979, *Carbohydrate Research*, v. 70 (1), 172-174
Crithidia deanei, novel β -D-(1 $\rightarrow$ 2)-linked D-mannopyranan

Carbohydrates, Parasite

- Rovis, L.; Barbet, A. F.; and Williams, R. O., 1978, *Nature*, London (5646), v. 271, 654-656
Trypanosoma congolense, characterization of surface coat, single specific glycoprotein as surface antigen, overall similarities with surface coat of *T. brucei*

Carbohydrates, Parasite

- Rumjanek, F. D.; Broomfield, K. E.; and Smithers, S. R., 1979, *Exper. Parasitol.*, v. 47 (1), 24-35
Schistosoma mansoni, glycosyl transferase activity, possible correlation with carbohydrate composition of tegument

Carbohydrates, Parasite

- Rusak, L. V.; and Kovchur, V. N., 1972, *Parazitologiya*, Leningrad, v. 6 (1), 85-87
Hymenolepis nana, glycogen content in parasite tissues decreased after treatment of infected mice with aminoacrichine, phenasal, or trichlorophen, implications for mechanism of drug action

Carbohydrates, Parasite

- Schanbacher, L. M.; and Beames, C. G., jr., 1978, *J. Parasitol.*, v. 64 (1), 89-92
Ascaris suum, fate of endogenous carbohydrate of worm intestine in vitro, effect of exogenous glycogen and trehalose upon rate of movement of 3-O-methylglucose across sac preparations of intestine

Carbohydrates, Parasite

- Segida, G. V., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 21, 80-88
Ascaridia galli, levels and localization of RNA, alkaline phosphatase and glycogen in nerve cells of both sexes of adult worms

Carbohydrates, Parasite

- Shakespeare, P. G.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (5), 407-415
Plasmodium knowlesi, glucose metabolism, activities of the glycolytic and pentose phosphate pathways during the intraerythrocytic cycle, studies suggest that parasite carries its own complement of glycolytic enzymes

Carbohydrates, Parasite

- Sharma, P. N., 1979, *Indian J. Exper. Biol.*, v. 17 (5), 479-483
 10 digenetic trematodes, histochemical localization of glycogen, lipids, proteins, and phosphatases in parenchyma and other tissues

Carbohydrates, Parasite

- da Silveira, J. F.; Abrahamsohn, P. A.; and Colli, W., 1979, *Biochim. et Biophys. Acta*, v. 550 (2), 222-232
Trypanosoma cruzi epimastigotes, method of isolation of plasma membrane vesicles, general analysis of their properties, protein and carbohydrate content, antigenicity

Carbohydrates, Parasite

- Simon, M. W.; Martin, E.; and Mukkada, A. J., 1978, *J. Bacteriol.*, v. 135 (3), 895-899
Leishmania spp., evidence for functional glyoxylate cycle

Carbohydrates, Parasite

- Simonic, T. and Locatelli, A., 1978, *Arch. Vet. Ital.*, Milano, v. 29 (3-4), 101-103
Fasciola hepatica homogenates, serotonin (5-HT) activates and 3',5'-cyclic GMP inhibits glycogen-phosphorylase activity

Carbohydrates, Parasite

- Sinha, D. P.; Sircar, M.; and Singh, S. P., 1978, *Indian J. Animal Research*, v. 12 (2), 97-101
 trematodes, cestodes, glycogen distribution, histochemistry; metabolism discussed

Carbohydrates, Parasite

- Sledge, W. E.; Larson, A. D.; and Hart, L. T., 1978, *Science* (4325), v. 199, 186-188
Tritrichomonas foetus, costae, procedure for purification, chemical composition (95% carbohydrate, 5% protein), evidence of structural association among costae, kinetosomes, and flagella

Carbohydrates, Parasite

- Snary, D.; and Hudson, L., 1979, *FEBS Letters*, v. 100 (1), 166-170
Trypanosoma cruzi cell surface proteins: identification of one major glycoprotein

Carbohydrates, Parasite

- Sood, M. L.; and Sehajpal, K., 1978, *Ztschr. Parasitenk.*, v. 56 (3), 267-273
Haemonchus contortus, morphology, histology, and biochemistry of gut, relationships to nutrition and digestion

Carbohydrates, Parasite

- de Souza, W.; et al., 1978, *Exper. Parasitol.*, v. 45 (1), 101-115
Trypanosoma cruzi incorporates exogenous proteins by pinocytosis, pinocytic vesicles can fuse forming multivesicular structures, cell membrane and membranes of pinocytic vesicles and large multivesicular structures contain carbohydrates, many intramembranous particles in cell membrane but few or none in membranes of vesicles and multivesicular structures

Carbohydrates, Parasite

- Starling, J. A.; and Fisher, F. M., jr., 1978, *J. Comp. Physiol.*, B, v. 126 (3), 223-231
Moniliformis dubius, carbohydrate transport: post-absorptive phosphorylation of glucose and role of trehalose in accumulation of endogenous glucose reserves

Carbohydrates, Parasite

Starling, J. A.; and Fisher, F. M., jr., 1979, J. Parasitol., v. 65 (1), 8-13

Moniliformis dubius, initial metabolism of fructose, mannose, and galactose, results indicate probable importance of trehalose to carbohydrate metabolism and to economy of carbohydrate acquisition in *Moniliformis*

Carbohydrates, Parasite

Stotish, R. L.; Wang, C. C.; and Meyenhofer, M., [1979], J. Parasitol., v. 64 (6), 1978, 1074-1081

Eimeria tenella, oocyst wall, lipid composition, carbohydrate composition, protein content, amino acid analysis, proposed organization of cell wall, results suggest explanation for physical and mechanical resistance of oocyst wall as well as possible mechanisms for excystation of sporulated oocysts

Carbohydrates, Parasite

Strazhnik, L. V.; and Davydov, O. N., 1975, Parazitologiya, Leningrad, v. 9 (1), 37-46

3 spp. of fish cestodes, glycogen content of parasites and host tissues, seasonal changes in glycogen content of parasites; effect of experimental exposure to various temperatures on parasite glycogen content, motor activity, and duration of life; effect of starvation on glycogen content of parasite and host in aquariums at various temperatures

Carbohydrates, Parasite

Strickler, J. E.; Mancini, P. E.; and Patton, C. L., 1978, Exper. Parasitol., v. 46 (2), 262-276

Trypanosoma brucei brucei, use of lectin affinity chromatography to isolate major surface coat glycoprotein (variant antigen), further purification by DEAE-cellulose chromatography

Carbohydrates, Parasite

Umezurike, G. M.; and Anya, A. O., 1978, Comp. Biochem. and Physiol., v. 59B (2), 147-151

Strongyluris brevicaudata, anaerobic carbohydrate energy metabolic pathway

Carbohydrates, Parasite

Van Marck, E., 1975, Ann. Soc. Belge Med. Trop., v. 55 (4), 373-377

Schistosoma mansoni-infected mice, presence of circulating polysaccharide schistosomal antigen in Kupffer cells demonstrated by immunofluorescence

Carbohydrates, Parasite

Voorheis, H. P.; et al., 1979, Biochem. J., v. 180 (1), 11-24

Trypanosoma brucei, plasma membrane, isolation and partial characterization

Carbohydrates, Parasite

Ward, P. F. V.; and Huskisson, N. S., 1978, Parasitology, v. 77 (3), 255-271

Haemonchus contortus adults, comparison of glucose metabolism under anaerobic and aerobic conditions

Carbohydrates, Parasite

Weik, R. R.; and John, D. T., 1978, J. Parasitol., v. 64 (4), 746-747

Naegleria fowleri, average number of nuclei per amoeba, macromolecular composition (mass, protein, RNA, DNA, carbohydrate), changes during growth in vitro

Carbohydrates, Parasite

Wilson, R. A.; and Barnes, P. E., 1979, Parasitology, v. 78 (3), 295-310

Schistosoma mansoni, protein and polysaccharide/glycoprotein synthesis by epithelial surfaces, autoradiography at light and electron microscope level

Carbohydrates, Parasite

Yusufi, A. N. K.; and Siddiqi, A. H., 1978, Ztschr. Parasitenk., v. 56 (1), 47-53

Gastrothylax crumenifer, *Srivastavia indica*, *Isoparorchis hypselobagri*, carbohydrate metabolism and enzyme studies suggest possible existence of pentosephosphate pathway and capacity for gluconeogenesis

Carbon dioxide

Band, R. N.; and Cirrito, H., 1979, J. Protozool., v. 26 (2), 282-286

Entamoeba histolytica in axenic culture, growth response to hydrogen, carbon dioxide, and oxygen

Carbon dioxide

Chen, S. N.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 473-486

Brugia pahangi, in vitro cultivation in variety of culture systems, effect of temperature and pH on survival of infective stage larvae in vitro, growth and development of larvae in vitro and in vivo, effect of CO₂ on infective larvae in vitro, growth and development of early mammalian stages in vitro, electron microscope observations

Carbon dioxide

Grothaus, R. H.; Haskins, J. R.; and Reed, J. T., 1976, J. Med. Entom., v. 12 (6), 702

Amblyomma americanum, simplified carbon dioxide collection technique for recovery of live ticks

Carbon dioxide

McCallister, G. L., 1979, J. Parasitol., v. 65 (1), 24

Eimeria, use of commercial soft drinks as source of carbon dioxide for excystation of oocysts

Carbon dioxide

Mack, S. R.; and Mueller, M., 1978, J. Parasitol., v. 64 (5), 927-929

Trichomonas vaginalis, *Tritrichomonas foetus*, effect of oxygen and carbon dioxide on growth

Carbon dioxide

Pappas, P. W., 1978, Ohio J. Sc., v. 78 (3), 152-153

Lacistorhynchus tenuis, inability to utilize CO₂ produced by urease during urea catabolism

Cardiovascular system. [See also Blood; Heart; Lymphatic system]

Cardiovascular system

Banks, K. L., 1978, *J. Protozool.*, v. 25 (2), 241-245

Trypanosoma congolense, rats, rabbits, localization of parasite in microvasculature is established by attachment of the organism to the vessel wall

Cardiovascular system

Greer, C. A.; Cain, G. D.; and Schottelius, B. A., 1979, *J. Parasitol.*, v. 65 (5), 825-827
Trypanosoma brucei-infected rats, changes in vascular smooth muscle contractility

Cardiovascular system

Kloetzel, K., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (1), 51-56

Schistosoma mansoni, mice, venous circulation in bowel wall, tissue reactions to deposition of ova and granuloma formation

Cardiovascular system

Leite Sobrinho, G. B.; and Alves, J. B. de R., 1979, *AMB, Rev. Ass. Med. Brasil.*, v. 25 (5), 154-156

Schistosoma mansoni, humans, hepatic infection, associated hypertension of inferior vena cava and portal vein, 39 cases reviewed

Cardiovascular system

Nasah, B. T.; and Cox, J. N., 1978, *Virchows Arch. A, Path. Anat. and Histol.*, v. 377 (3), 225-236

vascular lesions in testes of 40 of 41 infertile males with oligospermia postulated to be result of repeated formation and deposition of circulating immune complexes, antigens could be of various origins including living or dying parasites, evidence of parasitic testicular involvement (possibly filaria) in 2 cases: Cameroon

Cardiovascular system

Palmero, H. A.; Caeiro, T. F.; and Iosa, D. J., 1977, *Rev. Argent. Cardiol.*, v. 45 (5), 415-427
human trypanosomiasis, evaluation of age, sex and weight of Chagasic patients, possible effects on arterial blood pressure

Cardiovascular system

Rawlings, C. A., 1978, *Canad. J. Comp. Med.*, v. 42 (4), 452-459

Dirofilaria immitis, dogs with early vascular changes but without clinical cardiopulmonary signs and pulmonary hypertension, pulmonary vascular response

Cardiovascular system

Salgado, J. A.; and Veloso, C., 1971, *Rev. Soc. Brasil. Med. Trop.*, v. 5 (5), 271-289

hepatic schistosomiasis, survey of hospitalized patients for correlation between hepatic pathology and hypertension showed significantly higher blood pressures in patients without hepatic disease

Cardiovascular system

Slocombe, J. O. D.; et al., 1978, *Proc. 23. Ann. Conv. Am. Ass. Equine Practitioners* (Vancouver, British Columbia, Dec. 3-7, 1977), 305-311

Strongylus vulgaris, ponies (exper.), demonstration of early vascular changes by arteriography; attempt to implant a catheter permanently in femoral artery to obviate repetition of surgery in production of a series of radiographs

Cardiovascular system

Wright, I. G., 1978, *Vet. Parasitol.*, v. 4 (4), 393-398

Babesia bovis-infected *Bos taurus*, biogenic amine levels in plasma and whole blood, probable role in cardiovascular disturbances

Cardiovascular system

Wright, I. G., 1979, *Gen. Pharmacol.*, v. 10 (4), 319-325

Babesia, *Plasmodium*, *Trypanosoma*, kallikrein-kinin system, mechanisms of activation (parasite enzymes, immune complexes), role in hypotensive shock syndrome of infected animals, review

Carriers. See Disease transmission; Vectors.

Caspian Sea. See Seas, Caspian Sea.

Castration, Parasitic. See Sex and parasitism.

Catabolism. See Metabolism.

Celebes. See Indonesia, Celebes.

Cell division. See Gametogenesis; Meiosis; Mitosis; Reproduction.

Cell-mediated immunity. See Immunity, Cell-mediated.

Cellular immunity. See Immunity, Cell-mediated.

Centrifugation

Abdalla, H. S.; Hussein, H. S.; and Kreier, J. P., 1978, *J. Parasitol.*, v. 64 (3), 554-556

Babesia rodhaini, centrifugation times and speeds to obtain maximum yield of free parasites following passage of infected blood through sonic oscillation field, infectivity of free parasites in comparison to that of infected red blood cells

Centrifugation

Eugui, E. M.; and Allison, A. C., 1979, *Parasitology*, v. 79 (2), 267-275

Plasmodium, 3 murine spp., density-gradient centrifugation in metrizamide for separating uninfected erythrocytes from erythrocytes containing parasites in different developmental stages

Centrifugation

Goldsmid, J. M.; et al., 1972, *S. African Med. J.*, v. 46 (8), 171-174

Wuchereria bancrofti, *Dipetalonema perstans*, microfilariae, humans, diagnosis, microhaematocrit centrifuge technique for quick screening followed by thick and thin blood film staining for species identification

Centrifugation

Henry, C. W.; and Dick, J. W., 1978, *Avian Dis.*, v. 22 (3), 542-546

Leucocytozoon smithi, isolation of gametocytes from whole peripheral turkey blood, Ficoll density-gradient system

Centrifugation

Johnstone, C.; Leventhal, R.; and Soulsby, E. J. L., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1015-1020

Ascaris suum, C57BL/6 mice, centrifugation method for recovering tissue larvae is superior to both Baerman and tissue digest methods, use of this method in evaluating this mouse strain as model for study of immune resistance to infection

Centrifugation

- Kunstyr, I.; and Ammerpohl, E., 1978, Lab. Animals, v. 12 (2), 95-97
Spironucleus muris, faecal cysts, resistance to physical and chemical factors tested, data may be useful for control of infection in rodents and for cryopreservation of parasite

Centrifugation

- Le Bras, J.; and Payet, M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 552 [Letter]
Plasmodium spp., human, concentration of parasitized erythrocytes by centrifugation on Ficoll R solution, useful method when attempting to confirm doubtful diagnosis

Centrifugation

- Lumsden, W. H. R.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 312-317
Trypanosoma brucei, man, diagnosis using the miniature anion-exchange/centrifugation method, adaptation for field use: The Gambia

Centrifugation

- Lumsden, W. H. R.; Kimber, C. D.; and Doig, S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 214 [Letter]
Trypanosoma brucei, use of miniature anion-exchange/centrifugation technique to recover trypanosomes from tissue suspensions

Centrifugation

- Mehlitz, D., 1979, Tropenmed. u. Parasitol., v. 30 (2), 212-219
Trypanosoma spp., infection rates in domestic animals; screening of dogs and pigs to indicate potential reservoirs of *T. (Trypanozoon) brucei gambiense*; comparison of sensitivity of 3 diagnostic techniques; comparison of number of primary isolations and derived stabilized *Trypanosoma* stocks: rain forest areas, Liberia

Centrifugation

- Mrema, J. E.; et al., 1979, Bull. World Health Organ., v. 57 (1), 133-138
Plasmodium falciparum-infected erythrocytes from long-term culture, concentration and separation by gradient centrifugation

Centrifugation

- Roppel, R. M.; and McManus, W. R., 1978, Stain Tech., v. 53 (3), 179-181
Dirofilaria immitis microfilaria, heated centrifuge for orientation of electron microscope specimens for sectioning along specific axis

Centrifugation

- Sterling, C. R., 1978, J. Parasitol., v. 64 (4), 747-749
Plasmodium berghei, rapid method for concentrating and recovering spleen-derived schizont-infected erythrocytes

Chad. See Tchad.

Checklists. See Indices.

Chile

- Noemi, I.; Reyes, H.; and Mauro, G., 1974, Rev. Chilena Pediat., v. 45 (5), 454-457
 survey for incidence of intestinal parasitism in children living in the Eastern Health District of Santiago, Chile
(Hymenolepis nana; Ascaris lumbricoides; Trichuris trichiura; Giardia lamblia; Entamoeba histolytica; E. coli; Endolimax nana; Chilomastix mesnili)

Chile

- Oberg, C.; Franjola, R.; and Leyan, V., 1979, Bol. Chileno Parasitol., v. 34 (1-2), 21-26
 helminths of dogs, incidence survey, prevalence in relation to age, sex and weight: Valdivia City, Chile
(Uncinaria stenocephala; Capillaria plica; Toxocara canis; Toxascaris leonina; Trichuris vulpis; Filaroides osleri; Dipylidium caninum; Taenia hydatigena; Echinococcus granulosus; Phagicola sp.; Echinochasmus sp.; Acantocephalo)

Chile

- Reyes M., H.; and Munoz, V., 1975, Rev. Med. Chile, v. 103 (7), 477-479
 intestinal parasites, incidence in food handlers working in local hospitals in Santiago, Chile
(Entamoeba histolytica; Giardia lamblia; Hymenolepis nana; Entamoeba coli; Endolimax nana; Iodamoeba butschlii; Chilomastix mesnili)

Chile

- Schenone, H.; and Villarroel, F., 1978, Bol. Chileno Parasitol., v. 33 (3-4), 78-82
 intestinal parasites, survey of children from boarding schools in Santiago, Chile
(Entamoeba histolytica; Giardia lamblia; Ascaris lumbricoides; Trichuris trichiura; Hymenolepis nana; Enterobius vermicularis; Endolimax nana; Entamoeba coli; Chilomastix mesnili; Isospora belli; Taenia sp.)

Chromatography. [See also Gel filtration]

Chromatography

- Hillyer, G. V.; and Cervoni, M., 1978, J. Immunol. Methods, v. 20, 385-390
Fasciola hepatica, Schistosoma mansoni, purification of specific antigens by means of a combination of Laurell crossed immunoelectrophoresis for immunization using complexed antigen and affinity chromatography with monospecific antibody

Chromatography

- Hollingdale, M. R.; and Kilejian, A., 1979, J. Protozool., v. 26 (4), 616-619
Plasmodium lophurae, exoerythrocytic merozoites grown in embryonic turkey brain cells, purification by ion exchange column

Chromatography

- Joshua, R. A.; Herbert, W. J.; and White, R. G., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 602-603 [Letter]
Trypanosoma brucei gambiense, diagnosis, column chromatography

Chromatography

Kreier, J. P.; Al Abbassy, S. N.; and Seed, T. M., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 10-20

Trypanosoma cruzi, 3 morphologic forms, surface charge characteristics and their use in separation of these forms, DEAE cellulose column chromatography, particle electrophoresis system

Chromatography

Strickler, J. E.; Mancini, P. E.; and Patton, C. L., 1978, Exper. Parasitol., v. 46 (2), 262-276

Trypanosoma brucei brucei, use of lectin affinity chromatography to isolate major surface coat glycoprotein (variant antigen), further purification by DEAE-cellulose chromatography

Chromatography

Van Meirvenne, N.; et al., 1973, Ann. Soc. Belge Med. Trop., v. 53 (2), 109-122

Trypanosoma gambiense, *T. rhodesiense*, detection in human blood using column separation and membrane filtration

Chromosomes. [See also Genetics]

Chromosomes

Albertson, D. G.; Nwaorgu, O. C.; and Sulston, J. E., 1979, Chromosoma, v. 75 (1), 75-87

Strongyloides papillosus, 2 major karyotypes of eggs from feces of rabbits (2L2M and L3MS), oogenesis in parasitic females, generation of L3MS karyotype by chromatin diminution, chromosomal mechanism of sex determination

Chromosomes

Apt, W.; Gallegos, D.; and Milet, R., 1975, Rev. Med. Chile, v. 103 (9), 587-593

Toxoplasma gondii, study of persons with acute and chronic forms of infection for evidence of chromosome aberrations, brief discussion of possible pathogenic mechanism of chromosomal damage in the presence of infections

Chromosomes

Benazzi, M.; and Benazzi Lentati, G., 1976, Animal Cytogenet., v. 1, 182 pp.

platyhelminthes, gametogenesis, chromosome pattern, cycles, and evolution, reproductive mechanisms, cytotaxonomy

Chromosomes

Bogdanov, Iu. F., 1978, Tsitologiya, v. 20 (4), 460-463

Ascaris suum males, meiosis, unusual early formation of synaptonemal-like polycomplexes in spermatocyte cytoplasm

Chromosomes

Cachon, J.; and Cachon, M., 1979, Arch. Protistenk., v. 122 (3-4), 267-274

Apodinium [sp.], morphology, singular kinetochore structure

Chromosomes

Davis, A. H.; Kidd, G. H.; and Carter, C. F., 1979, Biochim. et Biophys. Acta, v. 565 (2), 315-325

Ascaris suum, chromosome diminution, two-fold increase of nucleosomal histone to DNA ratios during development

Chromosomes

Duda, P. L.; and Gupta, V., 1978, Current Sc., Bangalore, v. 47 (3), 106 [Letter]

Polystomoides kachugae, chromosome number, diploid count $2n=24$

Chromosomes

Gicquaud, C. R., 1979, Biol. Cell., v. 35 (3), 305-312

Entamoeba histolytica, nuclear ultrastructure, mitosis

Chromosomes

Goldstein, P., 1978, Chromosoma, v. 66 (1), 59-69

Ascaris lumbricoides var. *suum*, ultrastructural analysis of sex determination, first spermatocyte meiotic division, origin of univalent chromosomes

Chromosomes

Goldstein, P.; and Straus, N. A., 1978, Exper. Cell Research, v. 116 (2), 462-466

Ascaris suum (also referred to as *Ascaris lumbricoides* var. *suum*), molecular characterization of DNA and of chromatin diminution, analysis of complete reassocation kinetics of somatic and germ line DNA

Chromosomes

Gonzalez Da Silveira, L. E., 1978, Rev. Biol. Uruguay, v. 6 (2), 111-114

Gorgoderina parvicava, chromosomes, $n = 9$, all acrocentric except pairs 4 and 7 which are metacentric

Chromosomes

Goswami, U., 1978, Current Sc., Bangalore, v. 47 (11), 368-371

Trichuris ovis, *T. globulosa*, *T. trichiura*, comparative mitotic and meiotic behavior of chromosomes, karyotypes, sex determination, supernumerary chromosomes in *T. ovis* and *T. globulosa*

Chromosomes

Jimenez Caballero, R.; Molina Pasquel, C.; and Lisker, R., 1973, Rev. Invest. Clin., v. 25 (4), 345-348

Toxoplasma gondii, women with diagnostic antibody titers, study of presence of structural chromosome abnormalities in lymphocyte cultures, concluded that *Toxoplasma* infection does not increase proportion of chromosomal breakage in peripheral blood lymphocytes

Chromosomes

Kundu, S. C.; and Bogdanov, I. F., 1979, Chromosoma, v. 70 (3), 375-384

Ascaris suum, late meiotic prophase nuclei of spermatocytes, ultrastructural studies

Chromosomes

Loubes, C., 1979, J. Protozool., v. 26 (2), 200-208

Microsporidia, synaptonemal complexes demonstrated in 6 genera but not in *Nosema*, implications for life cycles

Chromosomes

Loverde, P. T., 1979, Tr. Am. Micr. Soc., v. 98 (2), 280-285

Paragonimus kellicotti, *P. ohirai*, chromosome number and morphology

Chromosomes

- Mutafova, T., 1976, *Khelmintologiya*, Sofia, v. 2, 68-74
Ascaris suum, morphology and behavior of sex chromosomes during meiosis

Chromosomes

- Mutafova, T.; and Komandarev, S., 1977, *Khel-mintologiya*, Sofia, v. 4, 29-33
Trichinella nelsoni, karyotype, chromosome numbers

Chromosomes

- Osburn, R. L.; and Oliver, J. H., jr., 1978, *J. Parasitol.*, v. 64 (4), 719-726
Dermacentor variabilis, effects of metopa on cytology and fertility of males treated as unfed adults

Chromosomes

- Ramachandran, P., 1977, *Zool. Anz.*, Jena, v. 198 (1-2), 84-88
Railliettiella gehyrae from *Calotes versicolor* (lungs), description, male and female reproductive systems, genome is 4 and somatic chromosome number is 8, transplantation to *Rana hexadactyla* (convenient laboratory host for short-term observations): Kerala, India

Chromosomes

- Rengaraju, V.; Sapkal, V. M.; and Navlurkar, P., 1979, *Current Sc.*, Bangalore, v. 48 (9), 415-417 [Letter]
Porrorchis indicus, chromosome number is $2N = 6$, one pair telocentric, one pair acrocentric, and one pair metacentric

Chromosomes

- Roth, G. E., 1979, *Chromosoma*, v. 74 (3), 355-371
Ascaris suum, *Parascaris equorum*, satellite DNA properties of germ line limited DNA, organization of somatic genomes

Chromosomes

- Runey, W. M.; Runey, G. L.; and Lauter, F. H., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1008-1014
Rhabdias ranae, determination of somatic, diploid, and haploid chromosome numbers; spermatogenesis, oogenesis, and fertilization; method of sex determination and chromosome elimination

Chromosomes

- Sakaguchi, Y.; and Tada, I., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (1), 5-7
Paragonimus ohirai, *P. mizakii*, comparative karyotype study

Chromosomes

- Short, R. B.; Menzel, M. Y.; and Pathak, S., 1979, *J. Parasitol.*, v. 65 (3), 471-473
Schistosoma mansoni, somatic chromosomes

Chromosomes

- Taft, S. J.; and LeGrande, W. H., 1979, *J. Parasitol.*, v. 65 (4), 666-667
Cyclocoelum oculum, chromosome studies

Chromosomes

- Terasaki, K., 1977, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 26 (4), 222-229
Paragonimus spp., chromosome studies: Japan

Chromosomes

- Terasaki, K.; and Nakamura, T., 1978, *Bull. Azabu Vet. Coll.*, v. 3 (2), 273-278
 flukes, simple technique for chromosome preparations

Chromosomes

- Thomas, C.; and Prasad, R. S., 1978, *Experientia*, v. 34 (11), 1440-1441
Xenopsylla astia, populations from different localities, differences in chromosome numbers, morphological differences; sterility in hybrids between the two populations: Bombay; Trivandrum

Chromosomes

- Vinnikova, N. V.; and Golikova, M. N., 1978, *Tsitologiya*, v. 20 (7), 731-735
Nyctotherus cordiformis, developed polytene chromosomes in macronuclear anlage, ultrastructure

Chromosomes

- Vivares, C. P.; and Sprague, V., 1979, *J. Invert. Path.*, v. 33 (1), 40-52
Ameson pulvis, fine structure and its implications for classification and chromosome cycle

Chromosomes

- Wysoki, M.; and Bolland, H. R., 1978, *Genetica*, v. 48 (3), 233-238
Rhipicephalus spp., spermatogenesis, chromosomes, sex determination: East Africa

Chromosomes

- Wysoki, M.; and Bolland, H. R., 1979, *Genetica*, v. 50 (1), 73-77
Amblyomma variegatum, A. lepidum, course and timing of spermatogenesis, sex determination, and chromosome numbers

Chyluria

- Crane, D. B.; Wheeler, W. E.; and Smith, M. J. V., 1977, *Urology*, v. 9 (4), 429-432
 parasitic chyluria, woman from British Guiana, case report, clinical aspects, diethylcarbamazine: Virginia

Chyluria

- Date, A.; Shastry, J. C. M.; and Johny, K. V., 1979, *J. Trop. Med. and Hyg.*, v. 82 (7), 150-154
 filarial chyluria, patients, possible pathogenetic mechanisms associated with various glomerular lesions

Chyluria

- Karanjaval, D. K., 1970, *Ann. Roy. Coll. Surg. England*, v. 46 (5), 267-276
 human filariasis with resulting chyluria, lymphangiography, clinical management, surgical therapy

Chyluria

- Karanjaval, D. K., 1979, *Brit. J. Urol.*, v. 51 (6), 440-442
 technique of clearance of dilated lymphatics in the renal hilum and lower ureter and bladder in cases of intractable chyluria or haemochyluria: India

Chyluria

- Mahadevan, R., 1978, Trop. Doctor, v. 8 (1), 28-35
Wuchereria bancrofti, *Brugia malayi*, humans, advances in surgical treatment of filariasis with emphasis on elephantiasis and chyluria

Chyluria

- Quintao, E. C. R.; et al., 1979, J. Lipid Research, v. 20 (8), 941-951
 filariasis patients with chyluria used to study origin of cholesterol transported in intestinal lymph

Chyluria

- Yamaguchi, 1976, Rev. Brasil. Cardiovas., v. 12 (2), 92-108
 filaria chyluria, statistics of 52 cases, clinical and laboratory aspects, histopathology, diagnostic studies, persons who had lived in areas of filariasis prior to living in Hawaii

Circadian rhythms. See Periodicity.

Circulatory system. See Cardiovascular system.

Climate and weather. [See also Humidity; Overwintering; Temperature]

Climate and weather

- Badie, A., 1978, Ann. Parasitol., v. 53 (4), 373-385
Dicrocoelium lanceolatum, sheep, annual activity cycle of intermediate hosts (*Cionella lubrica*, *Formica nigricans* and *F. cunicularia*), seasonal variation in number of parasitized ants, effect of climatic factors (temperature, rainfall), application to forecasting method: Limousin

Climate and weather

- Bali, M. K.; and Singh, R. P., 1977, Haryana Agric. Univ. J. Research, v. 7 (3), 143-148
Haemonchus contortus, sheep and goats, seasonal prevalence apparently influenced by temperature, relative humidity, and rainfall: Hissar

Climate and weather

- Barrera, A., [1971], An. Inst. Biol., Univ. Nac. Mexico, v. 39 (1), s. Zool., 1968, 35-99
 Siphonaptera, altitudinal distributions of fleas and hosts do not coincide, this lack explained by climatic factors influencing habitats of flea larvae and different levels of host specificity of adult fleas, four different strata or floors of faunistic composition identified: Popocatepetl Volcano and Trans-Volcanic Belt

Climate and weather

- Bennett, G. F.; Cameron, M.; and White, E., 1975, Canad. J. Zool., v. 53 (10), 1432-1442
 hematozoa of passeriforms, prevalence, effect of climate, application of insecticide, and large-scale environmental alteration: New Brunswick

Climate and weather

- Carneiro, J. R.; and Freitas, M. G., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (1), 49-61
 gastrointestinal nematodes, calves of various ages born during rainy season: State of Goias

Climate and weather

- Chhabra, M. B.; et al., 1978, Haryana Vet., v. 17 (2), 116-120
 gastrointestinal parasites and trypanosomiasis, livestock, survey in stress situation following floods: southern Haryana

Climate and weather

- Chiejina, S. N.; and Clegg, F. G., 1978, Brit. Vet. J., v. 134 (6), 541-550
Ostertagia ostertagi, cattle, epidemiology, herbage infection, disease incidence, serum pepsinogen levels (useful reflection of seasonal incidence), weather, 1974-1976: East Midlands, England

Climate and weather

- Craig, T. M., 1979, J. Am. Vet. Med. Ass., v. 174 (8), 844-847
 gastrointestinal nematodes, calves, seasonal transmission in two environmentally dissimilar areas, weather conditions more important than vegetation type in larval transmission: Texas Gulf Coast

Climate and weather

- Dario, J. G.; Gatmaitan, O. M.; and Aglibut, F. B., 1975, Philippine Agric., v. 59 (5-6), 127-136
Cooperia sp., *Trichostrongylus* sp., *Bunostomum* sp., *Haemonchus* sp., backyard cattle, seasonal distribution, incidence greatly influenced by rainfall, soil type, and age of host, epidemiology: Batangas province, Philippines

Climate and weather

- Delgado, A.; and Fregel, N., 1977, Rev. Cubana Cien. Vet., v. 8 (1), 53-64
 dictyocaulosis, bovine, foci, monthly occurrence, mortality, rainfall levels, temperature: Cuba

Climate and weather

- Donald, A. D.; et al., 1978, Austral. J. Agric. Research, v. 29 (1), 189-204
 gastrointestinal nematodes, availability to sheep grazing on summer-contaminated pastures (December-January contamination vs. February contamination), rates of decline of infective larvae, effects of weather conditions, implications for anthelmintic treatment and grazing management: Canberra, A. C. T.

Climate and weather

- English, A. W., 1979, Austral. Vet. J., v. 55 (7), 299-305
 equine strongyles, free-living stages in feces and on pasture, seasonal changes in rates of development and survival: Moggill, Brisbane, Queensland

Climate and weather

- English, A. W., 1979, Austral. Vet. J., v. 55 (7), 306-309
 equine strongyles, infective larvae, survival and migration on herbage with reference to season, climatic conditions, and types of pasture: southern Queensland

Climate and weather

- Fabiyl, J. P.; and Offiong, S. A., 1979, Vet. Rec., v. 104 (15), 348
Syngamus trachea in *Numida meleagris* galeata, severe outbreak after excessively wet weather, thiabendazole: Vom, Nigeria

Climate and weather

- Genchi, C.; Malnati, G.; and Carrara, L., 1978, Clin. Vet., Milano, v. 101 (4), 175-184
 gastrointestinal nematodes, race horses, climate variability, egg hatching, larval development to infective stage, presence of infective larvae on herbage in various seasons

Climate and weather

- Goll, P. H.; and Scott, J. M., 1978, Brit. Vet. J., v. 134 (6), 551-555
Fasciola hepatica, sheep, *Lymnaea truncatula* population density determined by adequate rainfall, parasite transmission mainly 'overwintering' variety, 'summer infection' and acute fascioliasis outbreaks in above average rainfall: Central Highlands, Ethiopia

Climate and weather

- Hellesnes, I.; Mohn, S. F.; and Melhuus, B., 1978, Acta Vet. Scand., v. 19 (4), 574-587
Toxoplasma gondii, epidemiology and food-hygienic significance, prevalence of antibodies and cysts in swine: south-east Norway

Climate and weather

- Iwuala, M. O. E.; and Okpala, I., 1978, Bull. Animal Health and Prod. Africa, v. 26 (4), 351-359
 ectoparasites, free-ranging livestock, seasonal infestation rates, influence of climatic factors on parasite population patterns: Nsukka, Nigeria

Climate and weather

- Johnstone, I. L.; et al., 1979, Austral. J. Exper. Agric. and Animal Husb. (98), v. 19, 303-311
 parasites, sheep, effect of four control schemes in two environments on wool production and liveweight gains

Climate and weather

- Karpovich, V. N., 1970, Parazitologiya, Leningrad, v. 4 (4), 345-351
Ceratioides putus, incidence on adult and juvenile birds, distribution of various life cycle stages on host in relation to surface temperatures of various sections of body, dates of attacking behavior and development in relation to temperature and microclimate of habitats: east Murmansk

Climate and weather

- McGregor, I. A.; and Williams, K., 1978, Israel J. Med. Sc., v. 14 (6), 697-706
 malaria, value of gel-precipitation test in monitoring endemicity in a rural African village, parasite and precipitin prevalence rates by age, climatic variation and extensive drug usage as factors implicated in changes in prevalence: The Gambia

Climate and weather

- Marzochi, M. C. de A., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (4), 249-256
 human intestinal parasites, eggs and cysts from water used to irrigate vegetable gardens, increased risk of crop contamination in dry season: Ribeirao Preto, Sao Paulo, Brazil

Climate and weather

- de Melo, H. J. H., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (1), 89-95
 gastro-intestinal nematodes, incidence in cattle on pastures during dry period: Savannah area of Mato Grosso State, Brazil

Climate and weather

- Mirzayans, A., 1971, Folia Parasitol., v. 18 (1), 93-95
Trichostrongylus axei, development and survival of free-living stages on grass plots during autumn: south-east England

Climate and weather

- Molyneux, D. H.; Baldry, D. A. T.; and Fairhurst, C., 1979, Acta Trop., v. 36 (1), 53-65
 human West African trypanosomiasis, suggested role of wind-dispersed *Glossina* in distribution, entomological and epidemiological evidence, implications for control operations, significance of these ideas in relation to origin of *Trypanosoma brucei rhodesiense* in Ethiopia and of *T. evansi* outside the tsetse zone

Climate and weather

- Nansen, P.; et al., 1978, Vet. Sc. Commun., v. 2 (3), 193-205
 trichostrongylid, grazing cattle, factors influencing fluctuations in herbage contamination, epidemiological consequences of intensification of animal husbandry methods: Denmark

Climate and weather

- Naprávník, J.; and Fajkos, A., 1978, Sborn. Vyske Skoly Zemedelske Praze, Fak. Agron., Rada B, Zivoc. Vyroba (1), 3-19
Eimeria spp., nematodes, pigs, soft runs as source of contamination, weather and climatic conditions

Climate and weather

- Norval, R. A. I., 1977, Rhodesian Vet. J., v. 8 (4), 60-66
 ticks mainly of humans and domestic animals, population dynamics in absence of cattle dipping operations, incidence of tick-borne disease, regional distribution related to climate, land utilization, and dipping: Kandeia Tribal Trust Land, northeast Rhodesia

Climate and weather

- Ogunsusi, R. A., 1979, Research Vet. Sc., v. 26 (3), 320-323
 trichostrongylid larvae, pasture infectivity for tracer lambs throughout period of one year, weather data: Guinea Savanna, Nigeria

Climate and weather

- Okon, E. D.; and Enyenihi, U. K., 1975, Bull. Animal Health and Prod. Africa, v. 23 (2), 145-153
Haemonchus contortus, *Gaigeria pachyscelis*, *Oesophagostomum columbianum*, goats, incidence, peak adult worm burden reached by end of rains, proposed regime of anthelmintic treatment: Guinea Savannah, Sahel, and Rain Forest zones of Nigeria

Climate and weather

- Okon, E. D.; and Enyenihi, U. K., 1977, Trop. Animal Health and Prod., v. 9 (1), 7-10
Haemonchus contortus, factors influencing development and survival of larvae on pasture; rainfall appeared to be the most important: Ibadan, Western Nigeria

Climate and weather

- Ollerenshaw, C. B.; Graham, E. G.; and Smith, L. P., 1978, Vet. Rec., v. 103 (21), 461-465
 parasitic gastroenteritis, lambs, forecasting incidence in late summer, correlation with rainfall of current year and dryness of previous late summer and autumn: England and Wales

Climate and weather

- Patrick, C. D.; and Hair, J. A., [1979], J. Parasitol., v. 64 (6), 1978, 1100-1106
Amblyomma americanum, effect of habitat utilization by white-tailed deer on seasonal abundance of tick populations in 3 different habitats

Climate and weather

- Peron, E.; and Mauri, M., 1977, Rev. Cubana Cien. Vet., v. 8 (2), 13-21
Dictyocaulus viviparus, calves, extent of invasion, results correlated with climatic conditions regardless of management-rotation changes; lower incidence in older animals: Cuba

Climate and weather

- Pimentel Neto, M., 1976, Pesquisa Agropec. Brasil., s. Vet., v. 11 (9), 101-114
Haemonchus placei, dairy calves, epizootiology: seasonal fluctuations, bioclimatographs, host nutritional state, *Haemonchus*/*Trichostrongylus* interaction, hypobiosis and spring rise phenomena: Barra Mansa, State of Rio de Janeiro, Brazil

Climate and weather

- Prieto, R.; Cueto, J.; and Rivera, E., 1978, Rev. Cubana Cien. Vet., v. 9 (1), 15-23
Gasterophilus spp., horses, monthly dynamics, influence of different climatic factors: Havana province, Cuba

Climate and weather

- Rawlins, S. C., 1979, Bull. Entom. Research, v. 69 (1), 87-91
Boophilus microplus, seasonal variation of larval population density in four pasture locations, variations related to rainfall: Jamaica

Climate and weather

- Ricciardi, I.; and Sanches, R. C. H., 1977, An. Microbiol., Rio de Janeiro, v. 22, 1976-1977, 141-165
P[lasmodium] vivax, method for determination of periods of disease transmission by analyses of regional or local climatograms: Brazil

Climate and weather

- Ritchie, L. S.; et al., 1978, J. Agric. Univ. Puerto Rico, v. 62 (2), 139-144
Fasciola hepatica in *Lymnaea cubensis* snails, increased snail numbers coincident with heavy rainfall, frequency of infection in cattle more than doubled, need for long term epidemiological research: Puerto Rico

Climate and weather

- Schillhorn Van Veen, T. W., 1978, Vet. Rec., v. 102 (16), 364-365
Haemonchus contortus, lambs (abomasum, faeces), casualties of young lambs following prolonged rainy season, further casualties at end of following dry season associated with inhibited *H. contortus* larvae suggest chronic haemonchosis syndrome (lambs had been previously treated with thiabendazole and rafoxanide); high pasture infection: Shika, near Zaria

Climate and weather

- Schillhorn van Veen, T. W.; and Oguinsusi, R. A. A., 1978, Vet. Parasitol., v. 4 (4), 377-383
trichostrongylid fecal egg output of lambing and non-lambing ewes in 2 sheep flocks in dry season of 1975/1976 and 1976/1977, effect of lactation vs. that of seasonal development of hypobiotic larvae, difference between the 2 dry seasons was associated with different rainfall patterns during 1975 and 1976: northern Nigeria

Climate and weather

- Sherkov, S. N.; Leitch, B.; and El Rabie, Y., [1977], Egypt. J. Vet. Sc., v. 13 (1), 1976, 45-51
Sarcosporidia, survey of incidence in domestic animals by examining for cystozoites rather than cysts, distribution by season, age of host, species of animal, and climate: Jordan

Climate and weather

- Shiff, C. J.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 375-380
Schistosoma haematobium, seasonal patterns in transmission, epidemiology in school children, control by winter application of molluscicides: Rhodesia

Climate and weather

- Tarazona, J. M.; et al., 1977, An. Inst. Nac. Invest. Agrar., s. Hig. y San. Animal (3), 1976-77, 11-21
Haemonchus contortus, *Trichostrongylus*, *Ostertagia*, sheep, periods of good transmission potential deduced on basis of bioclimatographs: various agrarian regions of Spain

Climate and weather

- Tashkinov, N. I., 1972, Parazitologiya, Leningrad, v. 6 (4), 326-333
Oedemagena tarandi in reindeer of different age and sex groups, larval development, larval emergence, flight and attacking activity of imago: seasonal and daily dynamics, weather effects, other factors

Climate and weather

- Thomas, R. J.; and Starr, J. R., 1978, Vet. Rec., v. 103 (21), 465-468
sheep nematodes, pattern of infective larvae on pasture, correlation between time of summer peak and cumulative rainfall, possible use in forecasting onset of major infection in lambs

Climate and weather

- Timchenko, A. D., 1972, Parazitologiya, Leningrad, v. 6 (6), 509-512
Eimeria spp., survival of non-sporulated and sporulated oocysts on soil surface and at various depths under conditions prevailing in southern Ukraine during winter to spring period, implications for prophylaxis and control of coccidiosis

Climate and weather

- Tongson, M. S.; et al., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 39-48
parasitic gastro-enteritis, epidemiological pattern in calves born during dry season vs. wet season, genera of strongyles that affect calves at certain ages and seasons of year, suggested deworming practices: ANSA Cattle and Crop Farms, Philippines

Climate and weather

- Tongson, M. S.; Arambulo, P. V. III; and Trovela, V., 1975, Philippine J. Vet. Med., v. 14 (1), 83-97
strongyles, calves raised under type II and type III climatic zones, monthly mean ova counts: Philippines

Climate and weather

- Tongson, M. S.; and Balediata, E., 1972, Philippine J. Vet. Med., v. 11 (2), 63-72
gastrointestinal nematodes, calves, monthly mean egg counts, climatic factors and acquired immunity as factors: BAI Alabang Stock Farm, province of Rizal

Climate and weather

- Tongson, M. S.; and Trovela, V., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 49-54
parasitic gastroenteritis, epidemiology: monthly strongyle ova counts of calves, effects of season, climate, and host age, suggested deworming practices: Verandia Ranch, Philippines

Climate and weather

- Tongson, M. S.; and Trovela, V., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 55-63
longevity of strongyle larvae in cattle dung pats on pasture, larvae persisted longer in pats deposited during dry vs. rainy season

Climate and weather

- Vasil'eva, I. S., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (2), 204-209
Ornithodoros tartakovskyi, summer distribution in porcupine or terrapin burrows, temperature and humidity conditions: southern Tadzhikistan

Climate and weather

- Volkov, V. I.; and Ershov, N. E., 1979, Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool. (4), 69-73
Ixodes persulcatus, computer analysis of numbers in relation to various ecological factors, including numbers of hosts and climatic conditions, 1962-1976, basis for predicting abundance: Priamur'ia

Climate and weather

- Waller, P. J.; and Thomas, R. J., 1978, Internat. J. Parasitol., v. 8 (4), 275-283
Ostertagia spp., epidemiology in natural parasite populations in sheep raised under intensive conditions, climatic conditions, egg counts and pasture larval availability, seasonal worm burdens, inhibition of larval development: north-east England

Climate and weather

- Zolotova, S. I.; Maslennikova, Z. P.; and Afanas'eva, O. V., 1978, Zool. Zhurnal, v. 57 (11), 1663-1667
Xenopsylla, numbers of generations in northern desert subzone, overlapping of generations, overwintering: Bakanassk GMS

Clotting, Blood. See Blood.Coagulation, Blood. See Blood.Colitis. [See also Intestine]

Colitis

- Bank, S.; et al., 1971, South African Med. J., v. 45 (9), 219-225
Entamoeba histolytica, human, clinical classification of amoebic colitis, case reports, diagnosis, therapy

Colitis

- Berkovits, L., 1975, Magy. Radiol., v. 27 (5), 283-289
Entamoeba histolytica, colitis, humans, pathologic changes determined by radiologic means

Colitis

- Boggs, C. H.; and Chakravorty, R. C., 1979, Virginia Med., v. 106 (9), 674-675
Entamoeba histolytica, 56-year-old male, necrotizing amebic colitis and perforated colon, case report, successful treatment with surgery, metronidazole, tetracycline: Virginia

Colitis

- Drasin, G. F.; Moss, J. P.; and Cheng, S. H., 1978, Radiology, v. 126 (3), 619-621
Strongyloides stercoralis colitis, humans, variations in pathologic findings as shown by radiography

Colitis

- Giacchino, J. L.; et al., 1978, Surg., Gynec. and Obst., v. 146 (4), 599-603
amoebic colitis with concurrent ulcerative colitis, humans, diagnostic and therapeutic problems involved, medical management

Colitis

- Sapunar, J.; et al., 1979, Bol. Chileno Parasitol., v. 34 (1-2), 36-39
Entamoeba histolytica, 21-year-old female with fulminating colitis, clinical case report; differential diagnosis of diarrheic conditions: Chile

Colitis

Scaffidi, V., 1973, *Riforma Med.*, v. 87 (19), 743-760

Entamoeba [histolytica], human, amoeboma and ulcerative amoebic colitis, clinical variables, diagnosis, therapeutics

Colitis

Stein, D.; Bank, S.; and Louw, J. H., 1979, *Surgery*, St. Louis, v. 85 (3), 349-352
fulminating amoebic colitis, humans, indications for surgical intervention, surgical management, case reviews

Collagen. See Proteins.

Collection of parasites. See Technique, Parasite collection and recovery.

Collections. [See also Museums]

Collections

Baker, J. R.; et al., 1978, *Bull. World Health Organ.*, v. 56 (3), 467-480

salivarian trypanosomes, definitions and nomenclature, relationship of characterized populations to Linnaean taxa, maintenance of reference collections, documentation of reference collections, proposals

Collections

Lamothe-Argumedo, R., [1977], *An. Inst. Biol., Univ. Nac. Mexico*, v. 47 (1), s. Zool., 1976, 61-62

helminthological collection of the Institute of Biology of the National University of Mexico, brief history and description of contents

Colombia

Corrier, D. E.; et al., 1978, *Brit. Vet. J.*, v. 134 (2), 101-107
survey of cattle health problems: plains of Colombia
(*Trypanosoma vivax*; ticks; lice; *Dermatobia hominis*; anaplasmosis; babesiosis; endoparasitism)

Colon. See Intestine.

Colonies, Arthropoda. See Technique, Rearing, Arthropoda.

Commensalism. See Symbiosis.

Complement fixation. See Immunity, Complement.

Concurrent infections. See Mixed infections.

Congenital immunity. See Immunity, Native; Immunity, Passive.

Congenital infection. See Prenatal infection.

Control. See Biological control; Disease transmission, Control; Snail control; Technique, Treatment.

Coprology. See Technique, Fecal examination.

Copulation. See Behavior; Disease transmission, Venereal; Reproduction.

Costa Rica

Arnold, K. A., 1970, *Rev. Biol. Trop.*, v. 16 (2), 1968, 259-265

Acarina and Diptera ectoparasites of birds

Costa Rica

Murillo M., F. E.; and Williams A., F., 1976, *Rev. Med. Costa Rica*, an. 43 (457), v. 33, 159-161

human intestinal parasites, comparative survey of urban and rural communities in Costa Rica
(*Ancylostoma* or *Necator*; *Ascaris lumbricoides*; *Trichocephalus trichiurus*; *Strongyloides stercoralis*; *Enterobius vermicularis*; *Tenia saginata* or *solium*; *Hymenolepis nana*; *Entamoeba histolytica*; *E. coli*; *Iodamoeba butshlii*; *Endolimax nana*; *Trichomonas hominis*; *Chilomastix mesnili*; *Enteromonas hominis*; *Lambliia intestinalis*; *Balantidium coli*)

Counterimmunoelectrophoresis. See Immunity, Precipitation.

Counting techniques. See Technique, Counting; Technique, Egg-count; Technique, Statistical methods.

Cross-immunity. See Immunity, Cross-reactions.

Crowding

Arizono, N., 1976, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 25 (4), 274-282

Strongyloides planiceps, differentiation into three developmental types (free-living males, free-living females, and infective larvae), effects of quantity of food (feces) and population density

Crowding

Coelho, P. M. Z.; et al., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (6), 440-442

Schistosoma mansoni-infected hamsters, increase in worm burden produces decrease in female worm size

Crowding

Fried, B.; and Nelson, P. D., 1978, *Parasitology*, v. 77 (1), 49-55

Zygodotyle lunata in domestic chicks, gross and histopathological effects on caecal tissues, feeding by worms on host caecal debris, stunting due to worm crowding

Crowding

Khalil, G. M., 1979, *J. Parasitol.*, v. 65 (2), 321-323

Argas arboreus, fecundity reduction as result of crowding

Crowding

Lewis, J. W., 1978, *J. Zool., London*, v. 184 (2), 225-229

Skrjabinylus nasicola in *Mustela nivalis* (nasal sinuses), correlation of intensity of infestation with severity of skull damage and with host age and sex, host factors influencing worm size and sex ratios, crowding effect in heavy infestations: Berkshire, Northumberland, and Sussex

Crowding

Mapes, C. J.; and Coop, R. L., 1971, *J. Comp. Path.*, v. 81 (4), 479-492

Haemonchus contortus chemically terminated or concurrent with *Nematodirus battus* in lambs lowered reproductive capacity and inhibited development of *N. battus*, results consistent with density-dependent physio-pharmacological mechanism of population control involving changes in host alimentary physiology (abomasal pH and Na⁺ concentration)

- Crowding
Mester, H., 1978, *Ang. Parasitol.*, v. 19 (1), 20-28
Actornithophilus gracilis, *Austromenopon aegialitidis*, *Quadriceps junceus*, lapwing nestlings, correlation between number of lice and host age, food preferences of both sexes of lice, overcrowding
- Crowding
Mills, C. A.; Anderson, R. M.; and Whitfield, P. J., 1979, *J. Animal Ecol.*, v. 48 (2), 383-399
Transversotrema patialense on *Brachydanio rerio* (exper.), host size (age) and parasite survival, (parasite) age- and density-dependent survival and reproduction, reinfection and transplantation experiments failed to provide evidence of host immunological responses
- Crowding
Singhvi, A.; and Johnson, S., 1978, *Zool. Anz., Jena*, v. 200 (5-6), 417-425
Rictularia jodhpurensis in male and female *Rattus rattus* of 3 different age categories, incidence, intensity, seasonal variation, parasite sex ratio, parasite length in relation to host weight and worm burden: Jodhpur, India
- Crowding
Sutherst, R. W.; Wagland, B. M.; and Roberts, J. A., 1978, *Internat. J. Parasitol.*, v. 8 (4), 321-324
Boophilus microplus on previously unexposed 'naive' *Bos taurus* and *Bos indicus*, tick survival at various levels of infestation, results indicate that density-dependent tick mortality is attributable mainly to acquired host resistance rather than to crowding
- Crowding
Yutuc, L. M., 1978, *Philippine J. Vet. Med.*, v. 17 (1-2), 70-84
Trypanosoma evansi, morphology, size variation in relation to host species, geographic location, infection density, and host resistance; phylogenetic origin
- Cuba
Coy Otero, A.; and Barus, V., 1979, *Acta Scient. Nat. Brno*, n. s., v. 13 (2), 3-43
nematodes of reptiles, analysis of host range and zoogeographic distribution: Cuba
- Cultivation. See Culture.
- Culture. [See also Growth]
- Culture
Baker, J. R.; and Taylor, A. E. R., 1978, *Methods Cultiv. Parasites in Vitro*, 1-15
in vitro culture, techniques and media, review
- Culture
Dancescu, P., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 473 [Letter]
modification of Harada-Mori culture method used in identifying helminths having a free larval stage
- Culture
Trager, W., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (2, pt. 1), 216-222
42. Ann. Charles Franklin Craig Lecture: Cultivation of parasites in vitro
- Culture, Acanthocephala
Lackie, A. M., 1978, *Methods Cultiv. Parasites in Vitro*, 279-285
Acanthocephala, cultivation, review
- Culture, Arthropoda. See Technique, Rearing, Arthropoda.
- Culture, Cestoda
Bruckner, D. A., 1979, *J. Parasitol.*, v. 65 (3), 450
Taenia solium, in vitro growth of racemose cysticercus from human brain
- Culture, Cestoda
Chatfield, R. C.; and Yeary, R. A., 1979, *Vet. Parasitol.*, v. 5 (2-3), 177-193
Hymenolepis diminuta, bunamidine HCl, applicability of in vitro cultivation in determination of LC₅₀, effect on enzymes involved in energy metabolism and on ultra-structure
- Culture, Cestoda
Chowdhury, N., 1978, *Ztschr. Parasitenk.*, v. 56 (1), 29-38
Hymenolepis microstoma, axenic culture, effects of fat soluble vitamins (A, D₃ and E) on growth
- Culture, Cestoda
DeRycke, P. H., 1975, *Acta Parasitol. Polon.*, v. 23 (12-25), 291-297
Hymenolepis microstoma, maintenance of cysticercoids in vitro in axenic simple defined media, infectivity for mice compared with cysticercoids grown in *Tribolium confusum*, results indicate adverse effects of in vitro maintenance
- Culture, Cestoda
Evans, W. S., 1978, *Canad. J. Zool.*, v. 56 (5), 1210-1211
Hymenolepis microstoma, effect of streptomycin and penicillin on growth and differentiation in vitro
- Culture, Cestoda
Guevara Benitez, D. C.; Osuna Carrillo, A.; and Suarez-Carrillo, L. E., 1978, *Rev. Iber. Parasitol.*, v. 38 (3-4), 783-791
Hymenolepis nana, in vitro culture, new methods and media
- Culture, Cestoda
Osuna Carrillo, A.; et al., 1978, *Rev. Iber. Parasitol.*, v. 38 (1-2), 289-299
Taenia hydatigena, in vitro, sterile techniques of cysticerci dissection and enzymatic treatments
- Culture, Cestoda
Ricetti, R. V., 1975, *Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo*, v. 12, 247-258
Cysticercus cellulosae, in vitro evagination, comparison of several artificial media, optimal temperature
- Culture, Cestoda
Sakamoto, T., 1978, *Mem. Fac. Agric. Kagoshima Univ.* (23), v. 14, 109-115
Echinococcus multilocularis, cells derived from germinal layer, development in vitro and in vivo (in diffusion chambers implanted in abdominal cavity of laboratory rodents) compared

Culture, Cestoda

- Sinha, D. P., 1978, Indian J. Exper. Biol., v. 16 (10), 1085-1088
Hymenolepis nana, cultivation in vitro, effect of sheep liver extract serially filtered in combination with Hanks' BSS or reconstituted after Sephadex column fractionation

Culture, Cestoda

- Voge, M., 1978, Methods Cultiv. Parasites in Vitro, 193-225
 Cestoda, cultivation, review

Culture, Nematoda

- Bailey, C. H.; Gordon, R.; and Mills, C., 1977, Canad. J. Zool., v. 55 (2), 391-397
Neomesomermis flumenalis free-living stages from field-collected blackfly larvae, culture methods and development in laboratory

Culture, Nematoda

- Brockelman, C. R.; and Jackson, G. J., 1978, J. Parasitol., v. 64 (5), 803-809
Rhabditis maupasi, axenic cultivation in chemically defined medium, nutritional (amino acid, heme, and sterol) requirements

Culture, Nematoda

- Chen, S. N.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 473-486
Brugia pahangi, in vitro cultivation in variety of culture systems, effect of temperature and pH on survival of infective stage larvae in vitro, growth and development of larvae in vitro and in vivo, effect of CO₂ on infective larvae in vitro, growth and development of early mammalian stages in vitro, electron microscope observations

Culture, Nematoda

- Devaney, E.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 139-144
Brugia pahangi, *Dirofilaria immitis*, attempted development in several culture systems

Culture, Nematoda

- Devaney, E.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 387-392
Brugia pahangi, *B. malayi*, development of artificially exsheathed microfilariae in cultures of mosquito cells

Culture, Nematoda

- Douvres, F. W., 1979, J. Parasitol., v. 65 (1), 79-84
Trichostrongylus axei, in vitro development from infective larvae to young adults in roller culture systems consisting of complex cell-free medium used alone or supplemented with pepsin and/or reducing agents

Culture, Nematoda

- Driuchenko, E. A.; and Berdyeva, G. T., 1972, Parazitologiya, Leningrad, v. 6 (4), 356-359
Ascaridia galli, *Ascaris suum*, arginine and lysine consumption from casein hydrolysate in vitro, simultaneous rise in concentration of leucine with isoleucine and valine with methionine in medium, ammonia primarily excreted suggested that medium is suitable for maintenance

Culture, Nematoda

- Duewel, D., 1974, Acta Parasitol. Polon., v. 22 (22-34), 351-356
Dictyocaulus viviparus, chamber method for cultivating uniformly infective larvae in faeces, method suited to mass breeding of *D. viviparus* as well as *Trichostrongylidae* larvae

Culture, Nematoda

- Finney, J. R., 1977, Nematologica, v. 23 (4), 479-480
Romanomermis culicivorax, development in in vitro culture

Culture, Nematoda

- Georgi, J. R.; et al., 1979, Parasitology, v. 79 (1), 39-47
Filaroides hirthei, migration and full development in *Canis familiaris*, development to 3rd stage in vitro

Culture, Nematoda

- Hansen, E. L.; and Hansen, J. W., 1978, Methods Cultiv. Parasites in Vitro, 227-277
 Nematoda, cultivation, review

Culture, Nematoda

- Khan, Z. I.; and Dorsman, W., [1979], J. Parasitol., v. 64 (6), 1978, 1024-1027
Trichostrongylus colubriformis, successful cultivation from hatched 1st-stage to 3rd-stage larvae

Culture, Nematoda

- Lawrence, D. N.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 991-996
Mansonella ozzardi, Amerindian populations, age group- and village-specific prevalence, diagnosis by peripheral blood lymphocyte cultures compared with Giemsa-stained peripheral blood smears: states of Amazonas and Acre, Brazil

Culture, Nematoda

- Lazdynia, M. A.; and Grinberga, M. A., 1978, Ang. Parasitol., v. 19 (4), 202-207
Ascaridia galli, eggs cultured in acid medium, neutralization of culture medium prior to experimental infection in chickens increased infectivity and establishment of larvae in host

Culture, Nematoda

- Majumdar, G., 1969, Atas Soc. Biol. Rio de Janeiro, v. 12 (4), 185-186
Africana bufonis, in vitro survival with different pH values and at different temperatures

Culture, Nematoda

- Mauro, N. A.; and Weinstein, P. O., 1979, Internat. J. Parasitol., v. 9 (5), 421-427
Nematospiroides dubius, *Nippostrongylus brasiliensis*, nutritional requirements for development of free-living stages in vitro: effects of sterols, rat hematin, and coproporphyrin; analysis of egg lipids

Culture, Nematoda

Moncol, D. J.; and Triantaphyllou, A. C., 1978, *J. Parasitol.*, v. 64 (2), 220-225

Strongyloides ransomi, factors influencing sex expression and developmental pattern of progeny of parasitic females: appearance of males attributed to effect of host immunity, physiological ageing of parasitic females, or both, sex determined prior to hatching; cultural conditions (pH, culture substrate) influenced direction of development of female rhabditoid larvae

Culture, Nematoda

Sakamoto, T., 1979, *Mem. Fac. Agric. Kagoshima Univ.* (24), v. 15, 107-114

Trichinella spiralis, development and behavior of adult and larval stages cultured in vitro

Culture, Nematoda

Sanchez Moreno, M.; Hermoso, R.; and Monteliva, M., 1978, *Rev. Iber. Parasitol.*, v. 38 (1-2), 403-414

Ascaris lumbricoides, in vitro, survival in various media

Culture, Nematoda

Schiller, E. L.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 997-1009

Onchocerca volvulus, details of methodology for cryopreservation and in vitro cultivation

Culture, Nematoda

Shishova, O. A.; and Mazhuga, N. A., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 21, 151-157

Ascaris suum, adult, protein absorption through mouth only (serum protein, casein, gelatin); addition of intact protein to culture media unnecessary because there is no cuticular absorption and only limited intestinal absorption

Culture, Nematoda

Veremchuk, G. V., 1972, *Parazitologiya, Leningrad*, v. 6 (4), 376-380

Neaplectana carpocapsae agriotos, mass rearing techniques

Culture, Nematoda

Wenk, P.; Illgen, B.; and Seitz, H. M., 1978, *Ztschr. Parasitenk.*, v. 55 (1), 63-72

Litomosoides carinii, maintenance of adult females and microfilariae and release of microfilariae in different culture media

Culture, Protozoa

Alam, M.; and Ahmad, S., 1979, *Indian J. Exper. Biol.*, v. 17 (10), 1152-1153

Entamoeba histolytica, prolonged cultivation without frequent subculturing

Culture, Protozoa

Albright, J. W.; and Albright, J. F., 1978, *Infect. and Immun.*, v. 22 (2), 343-349

Trypanosoma musculi, in vitro growth in cultures of murine spleen cells, analysis of requirement for supportive spleen cells, demonstration of utility of this culture system for analysis of host immune responses against the trypanosome

Culture, Protozoa

Albuquerque, R. D. R.; et al., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (1), 1-5

Chagas disease, human, serial hemoculture in Warren's medium, valuable diagnostic technique

Culture, Protozoa

Aljeboori, T. I., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (1), 117

Leishmania spp., cultivation in simple diphasic medium which contained no whole blood

Culture, Protozoa

de Almeida, D. F.; and de Souza, W., 1978, *J. Parasitol.*, v. 64 (1), 17-22

Herpetomonas samuelpessoai in basic medium or in complex media obtained through addition of various concentrations of KCl, NaCl, or glycerol, growth curves, changes in cell volume as function of osmolarity of medium, corresponding morphological changes

Culture, Protozoa

Augustine, P. C.; and Chute, A. M., 1978, *J. Parasitol.*, v. 64 (3), 425

Histomonas meleagridis, in vitro-adapted strain, inhibition of growth in conventional or gnotobiotic turkeys inoculated with 5 spp. of bacteria used for in vitro cultivation, supports hypothesis that in vitro culturing decreased in vivo reproductive capability by gradual elimination of more virulent organisms

Culture, Protozoa

Augustine, P. C.; and Doran, D. J., 1978, *J. Protozool.*, v. 25 (1), 82-86

Eimeria meleagridis, development from sporozoites and merozoites in turkey kidney cell cultures

Culture, Protozoa

Augustine, P. C.; Vetterling, J. M.; and Doran, D. J., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (2), 147-149

Eimeria tenella, comparison of amprolium- and buquinolate-resistant strains to a drug-sensitive strain with respect to (1) oocyst production in chicks and (2) infectivity, rate of development, and oocyst production in primary chick kidney cell cultures

Culture, Protozoa

Avila, J. L.; et al., 1979, *Exper. Parasitol.*, v. 48 (1), 27-35

Trypanosoma cruzi, defined medium for continuous cultivation of virulent parasites

Culture, Protozoa

Baker, J. R.; and Selden, L. F., 1978, *J. Gen. Microbiol.*, v. 106 (1), 27-32

Trypanosoma dionisii, extracellular growth in vitro at 37°C, influence of mouse peritoneal macrophages and calf sera

Culture, Protozoa

Band, R. N.; and Cirrito, H., 1979, *J. Protozool.*, v. 26 (2), 282-286

Entamoeba histolytica in axenic culture, growth response to hydrogen, carbon dioxide, and oxygen

Culture, Protozoa

Bartlett, M. S.; Verbanac, P. A.; and Smith, J. W., 1979, *J. Clin. Microbiol.*, v. 10 (6), 796-799

Pneumocystis carinii, successful culture with WI-38 human embryonic lung fibroblasts

Culture, Protozoa

Bautista, C. R.; and Kreier, J. P., 1979, *Infect. and Immun.*, v. 25 (1), 470-472

Babesia microti, short-term in vitro culture in hamster erythrocytes, inhibitory effect of immune serum on growth in vitro

Culture, Protozoa

- Berens, R. L.; and Marr, J. J., 1978, *J. Parasitol.*, v. 64 (1), 160
Leishmania donovani, easily prepared defined medium for cultivation of promastigotes

Culture, Protozoa

- Berens, R. L.; and Marr, J. J., 1979, *J. Protozool.*, v. 26 (3), 453-456
Leishmania donovani, growth of amastigotes in continuous macrophage-like murine tumor cell line

Culture, Protozoa

- Berman, J. D.; Dwyer, D. M.; and Wyler, D. J., 1979, *Infect. and Immun.*, v. 26 (1), 375-379
Leishmania tropica, *L. donovani*, method of cultivating in human monocyte-derived macrophages

Culture, Protozoa

- Bhat, U. K. M.; Mahoney, D. F.; and Wright, I. G., 1979, *Experientia*, v. 35 (6), 752-753
Babesia bovis, invasion and growth in *Boophilus microplus* tissue culture

Culture, Protozoa

- Bingham, A. K.; and Meyer, E. A., 1979, *Nature*, London (5694), v. 277, 301-302
Giardia, excystation in acidic solutions, pattern of trophozoite emergence during excystation, method for routine in vitro induction of excystation, establishment of in vitro axenic cultures from excysted trophozoites

Culture, Protozoa

- Boonlayangoor, P.; et al., 1978, *Exper. Parasitol.*, v. 45 (2), 225-233
Entamoeba histolytica, uptake of purine bases and nucleosides during axenic growth

Culture, Protozoa

- Braveny, I.; Winter, W.; and Disko, R., 1978, *Tropenmed. u. Parasitol.*, v. 29 (4), 432-434
Toxoplasma gondii, cultivation in human larynx carcinoma cells yielded 150-200 times the amount of inoculated *Toxoplasmas* within 2-3 days of culture inoculation

Culture, Protozoa

- de Carneri, I., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (5), 321-325
Balantidium coli in culture, nitrimidazine and metronidazole tested

Culture, Protozoa

- Chang, K. P., 1978, *J. Parasitol.*, v. 64 (5), 931-933
Leishmania donovani, intracellular multiplication during repeated passages in primary cultures of hamster peritoneal macrophages

Culture, Protozoa

- Chatterjee, D. K.; and Ray, D. K., 1979, *J. Parasitol.*, v. 65 (5), 815-816
Trichomonas vaginalis, simple medium for in vitro culture

Culture, Protozoa

- Chen, Z. R.; et al., 1978, *Acta Microbiol. Sinica*, v. 18 (4), 332-335
Plasmodium knowlesi, cultivation by continuous inoculation technique, infectivity to monkeys

Culture, Protozoa

- Chiari, E., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (2), 61-67
Trypanosoma cruzi, mice, culture forms (Y and MR strains) previously kept for 1 1/2 to 18 years without animal passage, infectivity compared

Culture, Protozoa

- Chiari, E., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (2), 81-87
Trypanosoma cruzi, strains Y and MR cultured for different periods of time, comparison of growth curves and differentiation (epimastigotes to metacyclic trypomastigotes) rates

Culture, Protozoa

- Childs, G. E.; Foster, K. A.; and McRoberts, M. J., 1978, *Internat. J. Parasitol.*, v. 8 (4), 255-258
Leishmania, New World spp., evaluation of 3 commercially available insect cell culture media for in vitro growth

Culture, Protozoa

- Childs, G. E.; McRoberts, M. J.; and Moussa, M. A., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 395-396
New World *Leishmania*, systems for in vitro large-scale propagation

Culture, Protozoa

- Chin, W., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 334-335
malaria, method for large-volume cultivation of parasites based on principle of Trager-Jensen culture method

Culture, Protozoa

- Chin, W.; Moss, D.; and Collins, W. E., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 591-592
Plasmodium fragile, successful continuous cultivation with rhesus monkey red blood cells using the Trager-Jensen method, availability of this parasite-monkey model would allow in vitro and in vivo study of immunologic responses in a more natural host

Culture, Protozoa

- Cosgrove, W. B.; Skeen, M. J.; and Hajduk, S. L., 1979, *J. Protozool.*, v. 26 (4), 643-648
Crithidia fasciculata in vitro, effect of hydroxyurea on cell numbers, structure, macromolecular synthesis, and degree of synchrony

Culture, Protozoa

- da Costa, S. C. G.; Venancio, I. A. S.; and da Silva, A. M., 1968, *Atas Soc. Biol. Rio de Janeiro*, v. 11 (6), 199-200
Trypanosoma cruzi, culture media for use in immunoprecipitation tests

Culture, Protozoa

- Crane, M. St. J.; and Dvorak, J. A., 1979, *J. Protozool.*, v. 26 (4), 599-604
Trypanosoma cruzi, interaction with vertebrate cells in vitro, DNA synthesis and growth of intracellular amastigotes, relationship to host cell DNA synthesis and growth

Culture, Protozoa

- Cunningham, I.; and Taylor, A. M., 1979, *J. Protozool.*, v. 26 (3), 428-432
Trypanosoma brucei, restoration of infectivity of various stocks cultivated at 28 C with tsetse fly salivary glands

- Culture, Protozoa
 Cursons, R. T. M.; et al., 1979, J. Parasitol., v. 65 (1), 189-191
Acanthamoeba, *Naegleria*, semidefined media for cultivation of pathogenic and nonpathogenic free-living amebae
- Culture, Protozoa
 Danforth, H. D.; Orjih, A. U.; and Nussenzweig, R. S., [1979], J. Parasitol., v. 64 (6), 1978, 1123-1125
Plasmodium berghei, indirect immunofluorescent staining of exoerythrocytic schizonts in rat liver sections exposed to antiparasite or anti-red blood cell serum, possible use in detecting early developmental stages in cell culture
- Culture, Protozoa
 Das, S. R., 1975, New Approaches Ident. Microorgan., 451-458
Naegleria-Hartmannella groups, agar plate method for isolation and cultivation of amoebae from infected humans and animals, soil, sewage sludge, fresh water, and other substrates
- Culture, Protozoa
 Das, S. R.; Das, P.; and Rai, G. P., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (3), 241-244
Entamoeba histolytica, axenically grown parasites, revival of pathogenicity for the rat, prolonged amoeba-bacteria association is required, simple addition of fresh bacteria to amoeba inoculum is not enough
- Culture, Protozoa
 Davis, W. C.; et al., 1978, Infect. and Immun., v. 22 (2), 597-602
Anaplasma marginale, short-term in vitro culture in bovine erythrocytes, evidence of DNA and protein synthesis
- Culture, Protozoa
 De Jonckheere, J., 1979, Path. Biol., v. 27 (8), 453-458
Naegleria fowleri, virulence for mice of isolates from environment, effect of axenic cultivation, brain passage, and passages in Vero cell cultures, mouse strain and age differences
- Culture, Protozoa
 Diamond, L. S.; Harlow, D. R.; and Cunnick, C. C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 431-432
Entamoeba spp., new medium for axenic cultivation
- Culture, Protozoa
 Docampo, R.; de Boiso, J. F.; and Stoppani, A. O. M., 1974, Rev. Asoc. Argent. Microbiol., v. 6 (1), 7-14
Trypanosoma cruzi epimastigotes cultured in diphasic media (with and without blood) and liquid media (with and without hemin) to establish influence of growth conditions on respiration and metabolism
- Culture, Protozoa
 Doran, D. J.; and Augustine, P. C., 1978, J. Protozool., v. 25 (4), 544-546
Eimeria tenella, vitamin requirements for development in primary cultures of chicken kidney cells
- Culture, Protozoa
 Duffus, W. P. H.; Wagner, G. G.; and Preston, J. M., 1978, Clin. and Exper. Immunol., v. 34 (3), 347-353
Theileria parva-infected bovine lymphoid cell culture line (C2), no specific parasite antigen detected on C2 cell surface, no detectable surface immunoglobulin or secretion of immunoglobulins into tissue culture medium, C2 cells found to share membrane antigen with normal calf thymus cells and to possess strong transplantation antigen, C2 cells can act as weak stimulators in mixed leucocyte reaction
- Culture, Protozoa
 Erp, E. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 1061-1064
Babesia bovis, growth in bovine erythrocyte cultures
- Culture, Protozoa
 Esteves, M. J. G.; et al., 1979, European J. Cell Biol., v. 20 (1), 113-115
Herpetomonas samuelpessoai, membrane-associated polysaccharides, influence of growth conditions
- Culture, Protozoa
 Evans, D. A., 1978, Methods Cultiv. Parasites in Vitro, 55-88
 Kinetoplastida, cultivation, review
- Culture, Protozoa
 Evans, D. A., 1979, J. Protozool., v. 26 (3), 425-427
Trypanosoma brucei rhodesiense, T. congolense, cyclical transmission by *Glossina morsitans morsitans* infected with culture-form procyclic trypanosomes
- Culture, Protozoa
 Farri, T. A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 205-206
Entamoeba histolytica, simple technique for obtaining clone cultures by microisolation
- Culture, Protozoa
 Figueiredo, Y. P.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (5), 306-314
Leishmania spp. culture forms, behaviour, nutrition, respiration, and metabolism compared in new liquid culture medium
- Culture, Protozoa
 Fish, W. R.; Holz, G. G., jr.; and Beach, D. H., 1978, J. Parasitol., v. 64 (3), 546-547
 26 trypanosomatid species, cultivation in new chemically-defined medium RE III
- Culture, Protozoa
 Fisher, J. W.; Kelley, G. L.; and Youssef, N. N., 1979, Ztschr. Parasitenk., v. 59 (3), 203-210
Eimeria dispersa, development in bovine kidney cell cultures
- Culture, Protozoa
 Foley, D. A.; Kennard, J.; and Vanderberg, J. P., 1978, Exper. Parasitol., v. 46 (2), 166-178
Plasmodium berghei, successful cultivation in vitro of infective exoerythrocytic schizonts in primary monolayer cultures of rat liver cells

Culture, Protozoa

- Friedman, M. J.; et al., 1979, Am. J. Tron. Med. and Hyg., v. 28 (5), 777-780
Plasmodium falciparum, in vitro cultures, host cell competence of abnormal hemoglobin-containing erythrocytes, evolutionary significance of results

Culture, Protozoa

- Gallardo Zerpa, M. F., 1974, Rev. Fac. Farm., Univ. Central Venezuela (27), v. 14, 69-73
Trypanosoma cruzi, *Leishmania donovani*, *L. braziliensis*, cultured successfully in diphasic autoclaved medium of tryptose, glucose, mineral salts, vitamins, blood and agar; medium would not support growth of *T. rangeli*

Culture, Protozoa

- Gao, M. X.; et al., 1979, Acta Microbiol. Sinica, v. 19 (1), 88-90
Plasmodium falciparum, continuous in vitro culture following deep-freezing of infected human blood

Culture, Protozoa

- Gatapia, S. L.; et al., 1976, Philippine J. Vet. and Animal Sc., v. 2 (2), 84-88
Trypanosoma evansi, longevity in artificial medium at room and refrigerator temperatures

Culture, Protozoa

- Ghadirian, E.; and Meerovitch, E., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 241-247
Entamoeba histolytica, IP-106 strain did not lose virulence after 11 years of axenic cultivation, pathogenic potential demonstrated in golden hamsters

Culture, Protozoa

- Ghadirian, E.; and Meerovitch, E., 1979, J. Parasitol., v. 65 (5), 768-771
Entamoeba histolytica, axenically-cultivated strain 200:NIH, pathogenicity in the hamster

Culture, Protozoa

- Gillin, F. D.; and Diamond, L. S., 1978, J. Protozool., v. 25 (4), 539-543
Entamoeba histolytica, other *Entamoeba* spp., technique for clonal growth in agar, possible use in drug testing

Culture, Protozoa

- Gorin, P. A. J.; et al., 1979, J. Protozool., v. 26 (3), 473-478
Crithidia fasciculata, D-mannan and D-arabino-D-galactan, structure, changes in proportion with age of culture

Culture, Protozoa

- Gravely, S. M.; et al., 1979, Internat. J. Parasitol., v. 9 (6), 591-598
Babesia bovis, morphologic, biologic, and immunologic properties of corpuscular and soluble fractions of parasites purified from in vitro blood cultures

Culture, Protozoa

- Gray, M. A.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 406-408
Trypanosoma congolense, maintenance of infectivity in vitro with explants of infected skin incubated at 37°C

Culture, Protozoa

- Grimwood, B. G.; Hechemy, K.; and Stevens, R. W., 1979, Exper. Parasitol., v. 48 (2), 282-286
Toxoplasma gondii, purification of trophozoites propagated in cell culture

Culture, Protozoa

- Grobov, O. F.; and Ziuman, B. V., 1972, Parazitologiya, Leningrad, v. 6 (2), 176-179
Nosema apis, in vitro cultivation of infected honey-bee midgut tissue

Culture, Protozoa

- Gutteridge, W. E.; and Coombs, G. H., 1977, Biochemistry of parasitic protozoa, 172 pp., illus.
 biochemistry of parasitic protozoa, text-book: methodology; catabolism and generation of energy; nucleic acid metabolism; protein metabolism; lipid metabolism; biochemical mechanism of drug action; isolation of parasitic protozoa from infected animals; culture of parasitic protozoa

Culture, Protozoa

- Hadani, A.; Kaufman, W.; and Barnett, S. F., 1978, J. Parasitol., v. 64 (3), 501-503
Nuttallia danii, development within *Hyalomma anatolicum excavatum* salivary glands held in organ culture in vitro

Culture, Protozoa

- Hall, C. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 849-852
Plasmodium falciparum, use of cultured parasites as antigen in standard indirect fluorescent antibody test

Culture, Protozoa

- Handman, E.; and Greenblatt, C. L., 1977, Ztschr. Parasitenk., v. 53 (2), 143-147
Leishmania enriettii in vitro grows well in guinea pig macrophages but fails to grow in mouse macrophages; medium containing excretory factors from *L. enriettii* culture (conditioned medium) promotes infection in mouse macrophages but similar medium from *L. tropica* does not; immune precipitation of medium by anti-*Leishmania* serum cancels infection-promoting effect; *L. tropica* infection of guinea pig macrophages enhanced by homologous medium

Culture, Protozoa

- Handman, E.; and Spira, D. T., 1977, Ztschr. Parasitenk., v. 53 (1), 75-81
Leishmania tropica system of prolonged culture of amastigotes in mouse macrophages, dynamics of division rate and macrophage infection; macrophages from immune mice inferior for culture

Culture, Protozoa

- Hendricks, L. D.; Wood, D. E.; and Hajduk, M. E., 1978, Parasitology, v. 76 (3), 309-316
Leishmania spp., *Trypanosoma* spp., commercially available liquid media for rapid cultivation

Culture, Protozoa

- Hendricks, L.; and Wright, N., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 962-964
 leishmaniasis, human cutaneous infections of New and Old World origin, diagnosis by in vitro cultivation of saline aspirates from lesions in Schneider's *Drosophila* Medium supplemented with 30% fetal bovine serum

- Culture, Protozoa
Higby, G. C.; et al., 1979, Parasitology, v. 78 (2), 155-170
Nosema eurytremae derived from trematode larvae, propagation in abnormal (insect) hosts and in tissue culture
- Culture, Protozoa
Hill, G. C.; et al., 1978, Science (4369), v. 202, 763-765
Trypanosoma rhodesiense, infective cultures initiated and maintained in vitro on Chinese hamster lung cells, cultured trypomastigotes are infective for mice and rats and are morphologically similar to bloodstream trypomastigotes, in addition they possess L- α -glycerophosphate oxidase system characteristic of bloodstream forms
- Culture, Protozoa
Hoff, R.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 461-466
Trypanosoma cruzi, rural population, age-specific prevalence rates of parasitemia (detected by blood cultures and xenodiagnosis) vs. seroreactivity (measured by complement fixation and indirect immunofluorescence tests): northeast Brazil
- Culture, Protozoa
Holbrook, T. W., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 460-462
Naegleria fowleri, chick embryos are susceptible to infection and may represent useful host for experimental studies
- Culture, Protozoa
Holbrook, T. W.; and Parker, B. W., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 984-987
Naegleria fowleri incubated on chick embryos, effects of embryo age and temperature on maintenance, infectivity maintained after 25 serial passages
- Culture, Protozoa
Hollingdale, M. R.; and Kilejian, A., 1979, J. Protozool., v. 26 (4), 616-619
Plasmodium lophurae, exoerythrocytic merozoites grown in embryonic turkey brain cells, purification by ion exchange column
- Culture, Protozoa
Iatsukha, M. V.; et al., 1978, Vestnik Dermat. i Venerol. (9), 12-14
trichomoniasis, women and their sexual partners, culture diagnosis superior to staining methods
- Culture, Protozoa
Jamra, L. M. F.; and Guimaraes, E. C., 1976, Rev. Brasil. Pesqui. Med. e Biol., v. 9 (1), 67-70
Toxoplasma gondii, suggestions for improving immunodiagnostic tests, culture procedures and storage methods for laboratory studies
- Culture, Protozoa
Jaouni, K. C., 1979, Exper. Parasitol., v. 47 (1), 54-64
Entamoeba histolytica, genetic control of susceptibility in chicken eggs
- Culture, Protozoa
Jensen, J. B., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1274-1276
Plasmodium falciparum, concentration from continuous culture of erythrocytes infected with trophozoites and schizonts, technique utilizes readily available gelatin
- Culture, Protozoa
Jensen, J. B., 1979, J. Protozool., v. 26 (1), 129-132
Plasmodium falciparum, gametocytogenesis in continuous cultures, crescent development with regard to timing of sequential stages, current culture methods cannot produce continuous supply of functional gametes for further studies
- Culture, Protozoa
Jensen, J. B.; and Trager, W., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 743-746
Plasmodium falciparum, establishment of new strains in continuous culture
- Culture, Protozoa
Jensen, J. B.; and Trager, W., 1978, Israel J. Med. Sc., v. 14 (5), 563-570
Plasmodium falciparum, recent advances in cultivation, symposium presentation
- Culture, Protozoa
Jensen, J. B.; Trager, W.; and Doherty, J., 1979, Exper. Parasitol., v. 48 (1), 36-41
Plasmodium falciparum, continuous cultivation in semiautomated apparatus
- Culture, Protozoa
Kanbara, H.; Fukuma, T.; and Nakabayashi, T., 1977, Biken J., v. 20 (3-4), 147-149
Trypanosoma cruzi, trypomastigote form, CM-cellulose separation from epimastigote and amastigote forms grown in fibroblast cell cultures; separable because of different surface character
- Culture, Protozoa
Kessler, R. H.; et al., 1979, Am. J. Vet. Research, v. 40 (12), 1767-1773
Anaplasma marginale, in vitro cultivation in bovine erythrocytes, growth pattern and morphology
- Culture, Protozoa
Kessler, R. H.; and Ristic, M., 1979, Am. J. Vet. Research, v. 40 (12), 1774-1776
Anaplasma marginale, in vitro cultivation in normal ovine and bovine erythrocytes, transmission from infected ovine to normal bovine cells demonstrated, growth patterns
- Culture, Protozoa
Kimura, E.; Lay, W. H.; and Fernandes, J. F., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (3), 133-138
Trypanosoma cruzi, in vitro metacyclic trypomastigotes purified from culture develop into amastigotes, multiply and transform into epimastigotes, increasing incubation temperature accelerates appearance of amastigotes but hinders further development
- Culture, Protozoa
Koesters, J.; Cubillos, A.; and Zuelch, S., 1978, Bol. Chileno Parasitol., v. 33 (3-4), 69-72
Chilomastix sp., cultivation in Dobell Laidlaw medium; in vitro and in vivo (chickens) testing of metronidazole
- Culture, Protozoa
Korbecki, M.; and Dynner, E., 1976, Bull. Acad. Polon. Sc., Cl. VI, s. Sc. Biol., v. 25 (5), 259-261
Trichomonas vaginalis, application of WISH cells as culture medium to produce large populations

Culture, Protozoa

- Kusunoki, Y., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (1), 6-16
Toxoplasma gondii, sporozoites, bradyzoites, and tachyzoites of Beverley strain, tachyzoites of RH strain, invasion and multiplication in cultured cells

Culture, Protozoa

- Lakhonina, G., 1978, Eesti NSV Teaduste Akad. Toimetised, v. 27, Biol. ser. (1), 47-54
Giardia, culture in solid medium; saccharolytic activity

Culture, Protozoa

- Lambros, C.; and Vanderberg, J. P., 1979, J. Parasitol., v. 65 (3), 418-420
Plasmodium falciparum, procedure for synchronization of erythrocytic stages in culture

Culture, Protozoa

- Lanar, D. E., 1979, J. Protozool., v. 26 (3), 457-462
Trypanosoma cruzi, cultivation with Triatoma infestans embryo cell line, growth and differentiation

Culture, Protozoa

- Langreth, S. G.; et al., 1978, J. Protozool., v. 25 (4), 443-452
Plasmodium falciparum, erythrocytic cycle in vitro, ultrastructure, comparison with in vivo (Aotus trivirgatus) life cycle stages

Culture, Protozoa

- Langreth, S. G.; et al., 1979, Exper. Parasitol., v. 48 (2), 213-219
Plasmodium falciparum, loss of knobs on infected erythrocyte surface after long-term cultivation

Culture, Protozoa

- Lo, H. S.; and Reeves, R. E., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 194-197
Entamoeba histolytica, axenic culture, riboflavin requirement

Culture, Protozoa

- Long, P. L., 1978, Methods Cultiv. Parasites in Vitro, 129-147
protozoa, growth in chicken embryos, review

Culture, Protozoa

- Long, P. L.; and Millard, B. J., 1979, Parasitology, v. 78 (1), 41-51
Eimeria dispersa, isolation from turkeys in Britain, life cycle and reproduction, cross-protection against American strain, electrophoretic analysis of enzymes, host specificity studies, in vitro growth studies, gross pathology, pathogenicity, immunogenicity

Culture, Protozoa

- Lugo-Hernandez, A., 1973, Rev. Brasil. Biol., v. 33 (4), 561-573
Trypanosoma cruzi, comparison of growth and development in 199 medium with inactivated calf serum or with chicken embryo cells at 37° and 33° C

Culture, Protozoa

- Lushbaugh, W. B.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 248-254
Entamoeba histolytica, periodic hamster liver passage enhances virulence of axenically cultured trophozoites, statistical analysis

Culture, Protozoa

- McHolland-Raymond, L. E.; Kingston, N.; and Trueblood, M. S., 1978, J. Protozool., v. 25 (3, pt. 2), 388-394
Trypanosoma theileri, continuous cultivation at 37 C in bovine cell culture

Culture, Protozoa

- Mahajan, R. C.; Panigrahi, D.; and Chandanani, R. E., 1978, Indian J. Med. Research, v. 67, 227-230
Entamoeba histolytica, usefulness of modified Stuart medium as transport medium for fecal samples and maintenance medium for laboratory strains (eliminates repeated subcultures)

Culture, Protozoa

- Masur, H.; and Jones, T. C., 1978, J. Exper. Med., v. 147 (1), 157-170
Pneumocystis carinii, preliminary studies on identifying trophozoites and cysts and establishing infection of cell cultures, interaction in vitro with macrophages and L-cells, observations suggest role for antibody and mononuclear phagocytes during immune response

Culture, Protozoa

- Mattern, C. F. T.; Keister, D. B.; and Caspar, P. A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 882-887
Entamoeba histolytica, rapid in vitro assay for cytopathogenicity of axenically cultivated strains, results compared with in vivo virulence assays

Culture, Protozoa

- Mazzola, V.; Amerault, T. E.; and Roby, T. O., 1979, Am. J. Vet. Research, v. 40 (12), 1812-1815
Anaplasma marginale, ultrastructure within and outside Aedes albopictus cells in vitro, reproduction not seen

Culture, Protozoa

- Meerovitch, E., 1978, Methods Cultiv. Parasites in Vitro, 19-37
Entamoeba, Giardia lamblia, Trichomonas vaginalis, cultivation, review

Culture, Protozoa

- Meerovitch, E.; and Ghadirian, E., 1978, Canad. J. Microbiol., v. 24 (1), 63-65
Entamoeba histolytica, restoration of virulence of two axenic strains by means of incorporation of cholesterol into culture medium

Culture, Protozoa

- Mehlhorn, H.; and Heydorn, A. O., 1979, Ztschr. Parasitenk., v. 58 (2), 97-113
Sarcocystis suihominis, gamogony in human tissue cultures, electron microscopical study

Culture, Protozoa

- Mendonca-Previato, L.; Gorin, P. A. J.; and Previato, J. O., 1979, Biochemistry, Washington, v. 18 (1), 149-154
Herpetomonas samuelpessoai, polysaccharide components of cells grown on various culture media, possible role of certain polysaccharides in immunogenic terms

Culture, Protozoa

- Meyer, H.; and Musacchio, M. de O., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (1), 7-9
Toxoplasma gondii in tissue culture, life cycle and development recorded by microcinematographic study in phase contrast

Culture, Protozoa

- Milder, R. V.; Kloetzel, J.; and Deane, M. P., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (6), 386-392

Trypanosoma cruzi culture and blood stream forms, optical and electron microscopic observations on interactions with hamster peritoneal macrophages, blood forms observed to be wrapped by a conspicuous membrane and to multiply actively; culture forms were epimastigotes folded upon themselves with invagination of periplast and electron-dense material inside and outside invaginations

Culture, Protozoa

- Minter-Goedbloed, E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 22-30

Trypanosoma cruzi, primary isolation by hemoculture of parasites from naturally infected *Didelphis azarae*, mice (exper.) and acute and chronic infections in humans; low proportion of successful isolations from human chronic infections due probably to lower parasitemia; hemoculture from chronic patients also differed markedly from other hosts in very slow growth-rate obtained which was probably due to continuing activities of humoral and cellular components in blood inoculum

Culture, Protozoa

- Minter-Goedbloed, E.; Minter, D. M.; and Marshall, T. F. de C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 217-225

Trypanosoma cruzi, detection in mice, humans, and *Didelphis azarae*, acute and chronic infections, xenodiagnosis vs. haemoculture, quantitative comparison

Culture, Protozoa

- Mitra, S.; and Krishna Murthi, C. R., 1978, Proc. Indian Acad. Sc., Sect. B, Exper. Biol., v. 87 (1), 9-23

Entamoeba histolytica, axenically grown trophozoites, formation of round bodies or 'precysts', effect of bacterial endotoxins, starch, and epinephrine

Culture, Protozoa

- Mohapatra, T. M.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (1), 53-58

Entamoeba histolytica, humans with symptomatic and asymptomatic amoebiasis, comparative evaluation of parasitological and serological diagnostic techniques

Culture, Protozoa

- Mourao, O. G.; and Milio, O. C., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (4), 183-188

Trypanosoma cruzi, method of processing blood cultures for use in diagnosis of chronic phase of Chagas disease

Culture, Protozoa

- Musaev, F. A., 1972, Parazitologiya, Leningrad, v. 6 (2), 185-188

Trichomonas elongata, occurrence in oral cavity of healthy persons vs. those with oral cavity diseases, host age and sex, suitable media for cultivating trichomonads, activity in vitro of several medicinal substances, role of trichomonads in periodontitis confirmed by treatment of patients with trichopol

Culture, Protozoa

- Neal, R. A.; and Miles, R. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 170-176

Trypanosoma cruzi, mice, detection of experimental infections, culture methods vs. xenodiagnosis

Culture, Protozoa

- Nyindo, M.; et al., 1978, J. Parasitol., v. 64 (3), 469-474

Trypanosoma brucei, cultivation in vitro of infective forms derived from midgut of *Glossina morsitans*, cultures thus established were infective to rats and tsetse flies

Culture, Protozoa

- Nyindo, M. B. A.; et al., 1978, Am. J. Vet. Research, v. 39 (1), 37-44

Theileria parva, *T. lawrencei*, cultivation of cell-free schizonts and merozoites in vitro, immunogenicity in cattle inoculated with *T. parva* merozoites and schizonts and later challenged

Culture, Protozoa

- Nyindo, M.; et al., [1979], J. Parasitol., v. 64 (6), 1978, 1039-1043

Trypanosoma brucei, in vitro cultivation of forms from salivary glands of *Glossina morsitans*

Culture, Protozoa

- Nyindo, M.; et al., 1979, J. Parasitol., v. 65 (5), 751-755

Trypanosoma brucei, in vitro propagation of metacyclic forms derived from salivary glands of *Glossina morsitans*, addition of specific antiserum to cultures caused agglutination of parasites and rendered them noninfective

Culture, Protozoa

- Pan, S. C., 1978, Exper. Parasitol., v. 45 (2), 215-224

Trypanosoma cruzi, highly enriched liquid medium that can support growth of amastigotes at 37 C

Culture, Protozoa

- Pan, S. C., 1978, Exper. Parasitol., v. 45 (2), 274-286

Trypanosoma cruzi, amastigotes derived from culture in cell-free medium at 37 C are biologically and physiologically similar to intracellular amastigotes derived from natural infections in that both can multiply and complete the life cycle intracellularly

Culture, Protozoa

- Pan, S. C. T., 1978, Exper. Parasitol., v. 46 (1), 108-112

Trypanosoma cruzi, cultivation in macromolecule-free semisynthetic and synthetic media

Culture, Protozoa

- Panza Carpio, J. A., 1974, Rev. Fac. Farm., Univ. Central Venezuela (27), v. 14, 61-68
Trypanosoma rangeli, culture in diphasic autoclaved medium containing human albumin, implications for nutritional requirements

Culture, Protozoa

- Phillips, R. S.; Wilson, R. J. M.; and Pasvol, G., 1978, J. Protozool., v. 25 (3, pt. 2), 394-398
Plasmodium falciparum, differentiation of gametocytes in microcultures of infected human blood, can develop both from ring-stage parasites introduced into culture and from merozoites released during subsequent schizogony in vitro, incorporation of [³H]-isoleucine by developing gametocytes

Culture, Protozoa

- Pifer, L. L.; Woods, D.; and Hughes, W. T., 1978, Infect. and Immun., v. 20 (1), 66-68
Pneumocystis carinii, capable of limited growth in Vero cell culture

Culture, Protozoa

- Pignatari de Martinez, F. M. R.; Monetto de Ledesma, A. M.; and Grosso, O. J., 1976, Rev. Fac. Cien. Med. Univ. Nac. Cordoba, v. 34 (3-4), 113-123
Trichomonas vaginalis, description of circular immobile forms seen in culture, tests for viability using several stains, several cells had multiple nuclei as though undergoing multiple nuclear division

Culture, Protozoa

- Poulter, L. W., 1979, Clin. and Exper. Immunol., v. 36 (1), 24-29
Leishmania enriettii, in vitro cultivation can be used to achieve quantification of viable parasites within an inoculum and within infected guinea-pig tissues

Culture, Protozoa

- Pye, D.; and Cox, J. C., 1979, Lab. Animals, v. 13 (3), 193-195
Encephalitozoon cuniculi, in vitro infectivity assay based on enumeration of lesions which appear as macroscopically distinct foci in cell cultures

Culture, Protozoa

- Rai, G. P.; Das, S. R.; and Garg, N. K., 1978, Proc. Indian Acad. Sci., Sect. B, Exper. Biol., v. 87 (7), 181-187
Entamoeba histolytica, axenically grown, factors in bacterial lipids supporting parasite growth

Culture, Protozoa

- Rassam, M. B.; and Al-Mudhaffar, S. A., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 345-347
Leishmania donovani, isolation using 3 different culture media

Culture, Protozoa

- Richards, W. H. G.; and Maples, B. K., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 99-108
Plasmodium falciparum in continuous culture, effects of pyrimethamine and chloroquine on parasite growth and viability

Culture, Protozoa

- Romanha, A. J.; et al., 1979, Comp. Biochem. and Physiol., v. 62B (2), 139-142
Trypanosoma cruzi, isoenzyme patterns of 4 soluble enzymes in seven parasite stocks determined by electrophoresis, changes after prolonged subculture

Culture, Protozoa

- Rostkowska, J., 1970, Acta Parasitol. Polon., v. 18 (27-41), 377-392
Balantidium coli, effect of various bacteria on propagation in vitro, on erythrophagocytic capability of balantidia, and on susceptibility of balantidia to atebirin, entobex, mexaform, and protargol; *Trichomonas hominis*, *Chilomastix mesnili*, and *Dientamoeba fragilis* found to be without effect; effect of balantidia on bacteria

Culture, Protozoa

- Ryley, J. F.; and Wilson, R. G., 1978, Methods Cultiv. Parasites in Vitro, 111-128
 cell and tissue culture of protozoa, review

Culture, Protozoa

- Scheff, G. J., 1978, Zentralbl. Bakterirol., 1. Abt. Orig., Reihe A, v. 242 (3), 419-421
Entamoeba histolytica, monoxenic cultures, growth enhanced with 6 *Fusobacteria* strains while *Bacteroides* strains did not possess this property

Culture, Protozoa

- Shadduck, J. A.; and Polley, M. B., 1978, J. Protozool., v. 25 (4), 491-496
Encephalitozoon cuniculi, propagation in vitro using rabbit choroid plexus (RCP) cells, some factors influencing infectivity and replication (passage level of organisms; passage level, age, and source of RCP cells; antibiotics; storage time and temperature including freezing; elevated temperature; chemical disinfectants; centrifugation; physical and chemical treatments)

Culture, Protozoa

- Shapiro, A.; et al., 1978, J. Protozool., v. 25 (4), 530-535
Crithidia fasciculata, growth in vitro, improvements in defined medium, survey of efficiency of chelators, chelator-metal ion relations, Fe, Cu, Mo requirements for hemin sparing, potential uses of high-yield media

Culture, Protozoa

- Sheehan, D. J.; et al., 1979, J. Clin. Microbiol., v. 10 (2), 128-133
Entamoeba histolytica, human, diagnosis, comparison of microscopic, cultural, counterimmunoelectrophoresis, and indirect hemagglutination techniques

Culture, Protozoa

- Shibalova, T. A.; and Petrenko, V. I., 1972, Parazitologiya, Leningrad, v. 6 (3), 201-205
Isospora bigemina, *I. felis*, *I. rivolta*, sporozoites inoculated into various tissue cultures, all 3 species invaded cultured cells but only *I. bigemina* developed further, resemblance of cultured parasites to *Toxoplasma gondii*, culture material fed to mice with necropsy and serological tests for *Toxoplasma* negative

- Culture, Protozoa
Siau, Y., 1977, Compt. Rend. Acad. Sc., Paris, v. 285, s. D, Sc. Nat., (6), 681-683
Myxobolus exiguus, early stages of development in vitro
- Culture, Protozoa
Siddiqui, W. A.; Kramer, K.; and Richard-Crum, S. M., 1978, J. Parasitol., v. 64 (1), 168-169
Plasmodium falciparum, in vitro cultivation and partial purification of antigen suitable for vaccination studies in Aotus monkeys
- Culture, Protozoa
Simpson, L., 1978, J. Parasitol., v. 64 (2), 360
Trypanosoma brucei, glucose-sensitive culture strain
- Culture, Protozoa
Sinden, R. E.; and Smalley, M. E., 1979, Parasitology, v. 79 (2), 277-296
Plasmodium falciparum, modified microculture technique used as bioassay for various anti-metabolites by examining their ability to inhibit gametocytogenesis; characterization of sexual cell-cycle
- Culture, Protozoa
Speer, C. A., 1979, J. Parasitol., v. 65 (4), 591-598
Eimeria magna, development of gamonts and oocysts in cell cultures inoculated with merozoites, extent of sporulation and infectiousness of oocysts developing in such cultures
- Culture, Protozoa
Stoessel, F. R.; and Haberkorn, S. E. M., 1978, Gac. Vet., Buenos Aires (327), v. 40, 24-32
Trichomonas foetus, Aberdeen Angus bulls (exper.), efficiency of different culture media for diagnosis
- Culture, Protozoa
Tedesco, L. F.; Errico, F.; and Del Baglivi, L. P., 1979, Austral. Vet. J., v. 55 (7), 322-324
Trichomonas foetus, bulls, diagnosis by direct microscopic examination and by cultural recovery, comparison of 2 methods for collection of preputial secretions, suitability of transport medium
- Culture, Protozoa
Tos-Luty, S.; Dutkiewicz, J.; and Uminski, J., 1971, Acta Parasitol. Polon., v. 19 (9-18), 227-236
Toxoplasma gondii, in vitro reproduction in tissue culture of chick embryo fibroblasts, influence of various sera on parasite growth
- Culture, Protozoa
Trager, W., 1974, Ciba Found. Symp., n.s. (20), 225-254
trypanosomes, leishmanias, nutrition and biosynthetic capabilities, problems of in vitro cultivation and differentiation, review
- Culture, Protozoa
Trager, W., 1979, J. Protozool., v. 26 (1), 125-129
Plasmodium falciparum, culture, improved continuous flow method
- Culture, Protozoa
Trager, W.; and Jensen, J. B., 1978, Nature, London (5664), v. 273, 621-622
Plasmodium falciparum, continuous cultivation in vitro of erythrocytic stages, applications, review
- Culture, Protozoa
Trigg, P. I., 1978, Methods Cultiv. Parasites in Vitro, 89-110
Plasmodium, cultivation, review
- Culture, Protozoa
Wang, L. T., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (4), 196-202
Entamoeba histolytica, 38 strains cultured from infected stool and liver aspirates, growth and maintenance in various media
- Culture, Protozoa
Warenycia, M. W.; et al., 1978, Experientia, v. 34 (4), 473-475
Trypanosoma theileri, identification as contaminant in primary cultures of bovine retina, successful subculture for 2 passages in sub-confluent cultures, some nutritional requirements, when cultures reached confluency no trypomastigotes or epimastigotes could be detected and attempts to recover trypanosomes from these cultures were unsuccessful
- Culture, Protozoa
Werner, H.; Springer, D.; and Koehler, H., 1977, Zentralbl. Bakteri., 1. Abt. Orig., Reihe A, v. 239 (4), 557-564
Trypanosoma cruzi-like-strain, morphology, frequency and density of parasites in Sanguinus oedipus, infectivity to monkeys and rodents, no clinical or histopathological findings, parasitaemia, development in cell cultures, cyclical development in Rhodnius prolixus and Triatoma infestans
- Culture, Protozoa
Wink, M., 1979, Internat. J. Parasitol., v. 9 (6), 585-589
Trypanosoma theileri, in vitro cultivation in semidefined insect and vertebrate cell culture media and in Glossina and vertebrate cell culture systems
- Culture, Protozoa
Woo, P. T. K., 1979, Exper. Parasitol., v. 47 (1), 36-48
Trypanoplasma salmositica, successful in vitro culture and subpassage, course of infection in Salmo gairdneri (exper.), clinical signs (anemia, exophthalmia, abdominal distension with ascites, splenomegaly), diagnosis by wet mount examination more sensitive than hematocrit centrifuge technique, evidence of possible antigenic variation
- Culture, Protozoa
Wood, D. E.; and Sousa, O. E., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (2), 93-96
Trypanosoma cruzi, saline extract of Rhodnius prolixus bugs added to insect-oriented culture medium, large increases in trypomastigote forms, useful for Chagas disease studies
- Culture, Protozoa
Yu, M.; and Kin, T. H., 1970, Singapore Med. J., v. 11 (1), 55-56
Endamoeba histolytica, Balantidium, Trichomonas, culture, new simple method

Culture, Tissue

- Bhat, U. K. M.; Mahoney, D. F.; and Wright, I. G., 1979, *Experientia*, v. 35 (6), 752-753
Babesia bovis, invasion and growth in *Boophilus microplus* tissue culture

Culture, Tissue

- Moulton, J. E., 1978, *Am. J. Vet. Research*, v. 39 (9), 1558-1564
 preparation of primary cultures of tick cells

Culture, Tissue

- Varma, M. G. R.; Pudney, M.; and Leake, C. J., 1975, *J. Med. Entomol.*, v. 11 (6), 698-706
Rhipicephalus appendiculatus, establishment of 3 cell lines from developing adult tissues, successful infection of 1 cell line with 4 arboviruses

Culture, Trematoda

- Davies, C., 1978, *Internat. J. Parasitol.*, v. 8 (3), 197-206
Fasciola hepatica, metacercariae grown in vitro in 2 different media, ultrastructure of tegument and digestive caeca, comparison with development of these 2 systems during maturation in vivo

Culture, Trematoda

- Davies, C.; and Smyth, J. D., 1978, *Internat. J. Parasitol.*, v. 8 (2), 125-131
Fasciola hepatica, in vitro cultivation of metacercariae under wide variety of conditions was generally unsuccessful, cultured metacercariae appeared to be in state of 'suspended animation' because when injected into mice they developed into egg-producing adults; partially developed flukes recovered from mice continued somatic growth in vitro but their genitalia failed to develop further

Culture, Trematoda

- Davies, C.; and Smyth, J. D., 1979, *Internat. J. Parasitol.*, v. 9 (3), 261-267
Microphallus similis, development in the mouse and under a range of in vitro cultivation systems

Culture, Trematoda

- Eveland, L. K.; Ludwowska, A.; and Madden, K. G., 1979, *Exper. Parasitol.*, v. 48 (3), 375-383
Schistosoma mansoni, long-term cultivation of in vitro derived schistosomula

Culture, Trematoda

- Fried, B., 1978, *Methods Cultiv. Parasites in Vitro*, 151-192
 Trematoda, cultivation, review

Culture, Trematoda

- Holanda, J. C.; et al., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (6), 410-414
Schistosoma mansoni, cercariae, schistosomules, and intermediate forms obtained in vitro, infectivity for mice, worm recovery

Culture, Trematoda

- Hsu, S. E., 1974, *Tung Wu Hsueh Pao (Acta Zool. Sinica)*, v. 20 (3), 231-242
Schistosoma japonicum, in vitro culture, role of red blood cells in culture medium, egg production and development

Culture, Trematoda

- Kohn, A.; et al., 1979, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 12 (2-3), 123-126
Schistosoma mansoni, survival time of male vs. female adult worms in 0.85% NaCl or phosphate buffered saline

Culture, Trematoda

- Kolzow, R. G.; and Nollen, P. M., [1979], *J. Parasitol.*, v. 64 (6), 1978, 994-997
Schistosoma japonicum, development and movement of reproductive cells, effects of stressful conditions (in vitro culture; intraperitoneal maintenance in hamsters; unisexual transplants into hepatic portal system of hamsters)

Culture, Trematoda

- Lehner, R. P.; and Sewell, M. M. H., 1979, *Vet. Parasitol.*, v. 5 (4), 315-323
Fasciola hepatica, maintenance in vitro of adult flukes in continuous-flow system

Culture, Trematoda

- Mitchell, J. S.; Halton, D. W.; and Smyth, J. D., 1978, *Internat. J. Parasitol.*, v. 8 (5), 389-397
Cotylurus erraticus metacercariae, excystment and growth in vitro and in vivo to egg-producing adults

Culture, Trematoda

- Popiel, I.; and James, B. L., 1978, *Parasitology*, v. 76 (3), 349-358
Microphallus pygmaeus, changes in ultrastructure of daughter sporocyst and contained metacercariae during culture in artificial seawater and modified Medium 199, comparison with variations in oxygen consumption, almost simultaneous onset of body wall degeneration in both media suggests that the nutrient medium is not suitable for maintenance of healthy daughter sporocysts

Culture, Trematoda

- Popiel, I.; and James, B. L., 1978, *Ztschr. Parasitenk.*, v. 56 (3), 251-265
Cercaria stunkardi, *C. linearis*, daughter sporocysts in chemically defined media, variations in oxygen consumption and ultrastructure, body wall degenerates but contained cercariae remain healthy

Culture, Trematoda

- Srivastava, M.; and Gupta, S. P., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 61-68
Isoparorchis hypselobagri adults, in vitro survival in various salt solutions and with addition of various sugars; carbohydrates absorbed through cuticle, pH 9 optimum

Culture, Trematoda

- Valenzuela, G.; and Sievers, G., 1977, *Bol. Chileno Parasitol.*, v. 32 (3-4), 84
Fasciola hepatica, simple method for culture of eggs under natural conditions

Cuticle. [See also Integument; Parasite surfaces; Tegument]

Cuticle

- Araujo, P., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (2), 83-90
Ascaris lumbricoides, *A. suum*, *Toxocara canis*, larvae, early ecdyses, 2 distinct cuticles at extremities, probably 2 ecdyses before eclosion, third stage as infective form, and 5 ecdyses in life cycle

Cuticle

- Asaishi, K., 1974, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 43 (2), 104-120
Anisakis larvae, analysis of cuticular antigen, application of fluorescent antibody test to histological diagnosis of chronic infection

Cuticle

- Barus, V.; and Sonin, M. D., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 385-390
Schistorophus cornutus, redescription, cuticular ridges, light and scanning electron microscopy

Cuticle

- Batson, B. S., 1979, Internat. J. Parasitol., v. 9 (6), 495-503
Gastromermis boophthorae, body wall, ultrastructural changes during life cycle, alkaline phosphatase activity, relationship to transcuticular uptake of nutrients

Cuticle

- Bogoiavlenskii, Iu. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 5-11
micromorphological structure and function of hypodermis of various groups of nematodes, functions include: support of somatic musculature and nerves, production of cuticle, storage place for nutrients (fats and glycogen), and barrier against harmful substances

Cuticle

- Bogoiavlenskii, Iu. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 34-37
Hamatospiculum cylindrica, micromorphology of cuticle and hypodermis

Cuticle

- Bogoiavlenskii, Iu. K.; and Nikitina, R. V., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 36-40
Ascaridia compar, fine structure of cuticle, hypodermis, and somatic musculature

Cuticle

- Burchard, G. D.; Buettner, D. W.; and Bierther, M., 1979, Tropenmed. u. Parasitol., v. 30 (1), 103-112
Onchocerca volvulus, electron microscopy, adult worms, onchocerca-nodules removed from patients

Cuticle

- Chen, S. N.; and Howells, R. E., 1979, Parasitology, v. 78 (3), 343-354
Brugia pahangi, infective larvae, juveniles, adults, uptake in vitro of dyes, monosaccharides, and amino acids, no evidence for oral uptake, transcuticular route of uptake may be employed

Cuticle

- Dennell, R., 1978, Zool. J. Linn. Soc., London, v. 64 (3), 241-250
laminar membranes and pore canals of *Hypoderma bovis* and some other arthropod cuticles, structure and contents

Cuticle

- Durette-Desset, M. C., 1979, Ann. Parasitol., v. 54 (3), 313-329
8 spp. of Nematodirinae, morphology and classification with special emphasis on synlophe

Cuticle

- Guttekova, A.; and Zmoray, I., 1978, Biologia, Bratislava, s. B, Zool. (2), v. 33 (5), 387-394
Bunostomum trigonocephalum, body wall (cuticle, hypodermis, and somatic musculature), ultrastructure

Cuticle

- Hackman, R. H., 1975, J. Insect Physiol., v. 21 (9), 1613-1623
Boophilus microplus, expanding abdominal cuticle, protein composition and analysis

Cuticle

- Hamada, G. S.; and Wertheim, G., 1978, J. Parasitol., v. 64 (3), 448-453
Mastophorus muris, adult and 3rd stage larva, cuticular ultrastructure

Cuticle

- Jaskoski, B. J.; and Ozuk, B. A., 1977, Tr. Illinois State Acad. Sc., v. 70 (3-4), 363-369
Dirofilaria immitis female adults, cuticular amino acids determined by one- and two-dimensional thin layer chromatography

Cuticle

- Kleinschuster, S. J.; Hepler, D. I.; and Voth, D. R., 1978, Vet. Sc. Commun., v. 2 (3), 237-241
Nematospiroides dubius, mice, mechanism of attachment appears to be primary longitudinal striae of the cuticle which embed into the host's intestinal villi

Cuticle

- Koroleva, N. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 41-43
Heterakis gallinarum, fine structure of cuticle

Cuticle

- Koshkina, L. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 88-92
Ascaridia galli, in vivo and in vitro studies on effect of host immunity on cuticle permeability

Cuticle

- Lichtenfels, J. R., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 111-119
6 *Cooperia* spp. of North American ruminants, differences in cuticular ridges, use in identification of males and females, key

Cuticle

- Mackenzie, C. D.; Preston, P. M.; and Ogilvie, B. M., 1978, Nature, London (5690), v. 276, 826-828
Trichinella spiralis, *Nippostrongylus brasiliensis*, surface of infective larvae and adults may activate complement but not that of newborn larvae, stage-specific antibodies to nematode cuticle are capable of mediating attack by inflammatory cells against nematode surface

Cuticle

- Maggenti, A. R., 1979, J. Nematol., v. 11 (1), 94-98
Nemata, proposal for system of cuticular nomenclature based on strata observed in *Enoplia*

Cuticle

Magzoub, M., 1971, Sudan Med. J., v. 9 (3), 178-182

Schistosoma mansoni, untreated worms and worms treated with ambilhar or astiban, electron microscopy of cuticle, subcuticular region, and gut; possibility that egg formation is interrupted by either treatment

Cuticle

Martinez-Palomo, A., 1978, J. Parasitol., v. 64 (1), 127-136

Onchocerca volvulus, microfilariae at different developmental stages obtained from untreated humans, formation of cuticle characterized ultrastructurally, no plasma membrane found at cuticle, results suggest that immunogenic determinants are hidden from exterior by acellular cuticle and this may explain lack of cellular reaction usually found around living microfilariae in dermis of onchocerciasis patients

Cuticle

Masaba, S., 1978, Bull. Animal Health and Prod. Africa, v. 26 (4), 298-306

Hyostrongylus rubidus, immune adherence of human red blood cells to cuticles of various developmental stages following exposure of parasites to serum derived from infected pigs in presence of complement

Cuticle

Miegeville, M.; Marjolet, M.; and Vermeil, C., 1978, Compt. Rend. Acad. Sc., Paris, v. 286, s. D, Sc. Nat. (12), 997-999

Dipetalonema viteae, microfilaria in circulating blood of hamster, cuticular surface studied with scanning electron microscopy, evidence of two types of microfilariae with distinctive characters in anterior part of body

Cuticle

Nahif, A. A., 1978, Ang. Parasitol., v. 19 (3), 162-167

Przhevalskiana silenus, ontogenesis of integument during different larval stages, histomorphology

Cuticle

Novoselska, L. I., 1978, Dokl. Bolgar. Akad. Nauk, v. 31 (3), 353-356

Trichinella larvae (intact larvae vs. cryostat sections in guinea pig muscle), desorption of antigens, immunofluorescent studies of cuticle

Cuticle

Ohmori, Y.; Yoshimura, H.; and Ishigooka, S., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (1), 24-35

Strongyloidea, 29 species, comparative study of 5 types of esophageal cuticular lining

Cuticle

Pavlov, A. V.; and Koshkina, L. A., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 119-121

Ascaris suum, role of nervous system in regulating cuticular permeability

Cuticle

Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (5), 459-466

Nematospiroides dubius, cuticle of infective 3rd stage larvae (L3) as well as post-infective and mature forms can activate serum complement via alternative pathway, adherence of mouse peritoneal exudate cells from immune mice to L3 promoted by either complement or antibody resulted in reduced larval infectivity

Cuticle

Shishova, O. A.; and Mazhuga, N. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 151-157

Ascaris suum, adult, protein absorption through mouth only (serum protein, casein, gelatin); addition of intact protein to culture media unnecessary because there is no cuticular absorption and only limited intestinal absorption

Cuticle

Stromberg, B. E.; and Nutting, W. B., 1973, Acarologia, v. 14 (4), 605-611

Demodex spp. (especially *D. caprae*) and 2 related genera, physical characteristics and chemistry of exoskeleton and pigment granules

Cuticle

Timofeev, V. A.; and Kuperman, B. I., 1973, Parazitologiya, Leningrad, v. 7 (4), 339-348

Trianenophorus nodulosus, changes in ultrastructure of body surface during development from oncosphere into proceroid

Cuticle

Tomita, S., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (2), 61-77

Thelazia callipaeda, ultrastructure of body wall

Cuticle

Wiger, R.; Barus, V.; and Tenora, F., 1978, Zool. Scripta, v. 7 (1), 25-31

Syphacia spp., ultrastructure of head and cuticle surface structure by scanning electron microscopy, taxonomic importance

Cuticle

Wong, M. M.; and Brummer, M. E. G., 1978, J. Parasitol., v. 64 (1), 108-114

Dirofilaria 5 spp., cuticular morphology, scanning electron microscopy, possible aid in differentiation and recognition

Cysts

Abdel Gaffar, F.; Hilali, M.; and Scholtyssek, E., 1978, Tropenmed. u. Parasitol., v. 29 (3), 289-294

Sarcocystis fusiformis in *Bubalus bubalis*, fine structure morphology, large and small sarcocysts from muscular layer of oesophagus: Egypt

Cysts

Armstrong, D. A.; and Armstrong, J. L., 1974, Proc. National Shellfish Ass., v. 64, 68-72

haplosporidan in *Tresus capax*, incidence of infection observed by the presence of cysts in host tissue, age of host, pathology: Yaquina Bay, Oregon

Cysts

- Ashizawa, H.; et al., 1977, Bull. Fac. Agric. Univ. Miyazaki, v. 24 (2), 277-286
Cysticercus tenuicollis, pigs (omentum), 3 cyst types (common, intermediate, degenerative) compared, migratory route of bladder worm

Cysts

- Bali, H. S.; and Chhabra, R. C., 1978, Indian J. Animal Sc., v. 48 (6), 432-435
Echinococcus granulosus in *Bubalus bubalis* (thoracic cavity, lungs), morphology of brood capsules, analysis of cystic fluid contents, development and pathology in pups (exper.) (intestine)

Cysts

- Bansal, A. K., 1978, Agra Univ. J. Research, Science, v. 25 (3), 1976, 11-19
Cercaria chauhani, redescription, encystment, longevity in various mediums

Cysts

- Bansal, A. K.; and Jain, S. P., 1978, Agra Univ. J. Research, Science, v. 25 (3), 1976, 5-10
Cercaria chandrapali, encystment

Cysts

- Bingham, A. K.; et al., 1979, Exper. Parasitol., v. 47 (2), 284-291
Giardia sp., excystation in vitro, effects of temperature, pH, time, and incubation medium; eosin exclusion and excystation compared as methods of determining cyst viability, effect of temperature on cyst viability

Cysts

- Bingham, A. K.; and Meyer, E. A., 1979, Nature, London (5694), v. 277, 301-302
Giardia, excystation in acidic solutions, pattern of trophozoite emergence during excystation, method for routine in vitro induction of excystation, establishment of in vitro axenic cultures from excysted trophozoites

Cysts

- Chapman, H. D., 1978, Ztschr. Parasitenk., v. 56 (2), 115-121
Eimeria spp., excystation, roles of various enzymes

Cysts

- Cheung, P. J.; Nigrelli, R. F.; and Ruggieri, G. D., 1979, J. Fish Dis., v. 2 (2), 93-97
Cryptocaryon irritans, effect of temperature and salinity on reproductive cycle

Cysts

- Christie, E.; Pappas, P. W.; and Dubey, J. P., 1978, J. Protozool., v. 25 (4), 438-443
Toxoplasma gondii oocysts, process of excystation, light and electron microscopy

Cysts

- Davis, B. O., jr., 1975, Acta Parasitol. Polon., v. 23 (12-25), 229-236
Hymenolepis microstoma, effects of cysticercoid age on morphology, excystation in vitro, and infectivity for mice

Cysts

- Dixon, K. E.; and Colton, M., 1978, Internat. J. Parasitol., v. 8 (6), 491-499
Cloacitrema narrabeenensis, cystogenic cells in mature cercariae, surface structures of cercaria, formation of metacercarial cyst wall, light and electron microscopic and histochemical study

Cysts

- Farquhar, A. S.; Anthony, W. B.; and Ernst, J. V., 1979, J. Animal Sc., v. 49 (5), 1331-1336
Eimeria bovis oocysts in manure-blended diet, adequate ensiling prevents sporulation

Cysts

- Fried, B.; and Bennett, M. C., 1979, J. Parasitol., v. 65 (1), 38-40
Echinostoma revolutum, encystment of cercariae

Cysts

- Fried, B.; and Butler, M. S., 1978, J. Parasitol., v. 64 (1), 175-177
Echinostoma revolutum metacercaria: bicarbonate pretreatment significantly enhanced infectivity in domestic chick; chemical excystation; development on chick chorioallantois

Cysts

- Fried, B.; Robbins, S. H.; and Nelson, P. D., 1978, J. Parasitol., v. 64 (3), 395-397
Zygocotyle lunata metacercariae, excystation in vivo (lower ileum of domestic chick) and in vitro, histochemistry of cyst

Cysts

- Guika, G. J.; and Fried, B., 1979, Internat. J. Parasitol., v. 9 (1), 57-59
Echinostoma revolutum, metacercarial cyst, histochemistry and ultrastructure

Cysts

- Harley, J. P.; and Moore, G., 1974, Acta Parasitol. Polon., v. 22 (1-11), 25-27
Trichinella spiralis, Alcian blue histochemistry of cyst wall in mouse, consists of outer acid mucopolysaccharide layer bound to sulfated collagen

Cysts

- Jira, J.; Zitova, D.; and Princova, D., 1971, Folia Parasitol., v. 18 (4), 295-302
Toxoplasma gondii, mice (exper.), kinetics of cyst occurrence and production of complement fixing antibodies

Cysts

- Jolley, W. R.; Allen, J. V.; and Nyberg, P. A., 1979, Internat. J. Parasitol., v. 9 (3), 199-204
Eimeria stiedai, *Eimeria tenella*, micropyle and oocyst wall changes associated with chemically-mediated in vitro excystation

Cysts

- Kan, S. P., 1979, Internat. J. Parasitol., v. 9 (5), 475-480
Sarcocystis spp. from rodents, ultrastructure of cyst wall: Malaysia

Cysts

- Kan, S. P.; and Dissanaik, A. S., 1978, Ztschr. Parasitenk., v. 57 (2), 107-116
Sarcocystis levinei, *S. fusiformis*, comparative ultrastructure of cyst wall and zoites: Malaysia

Cysts

Kan, S. P.; Prathap, K.; and Dissanaik, A. S., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (4), 634-642

Sarcocystis sp. from *Macaca fascicularis* (femoral muscle), ultrastructure of cyst wall and zoites, comparison with *Sarcocystis* spp. from other monkeys and from moonrat: Malaysia

Cysts

Kunstyr, I.; and Ammerpohl, E., 1978, *Lab. Animals*, v. 12 (2), 95-97

Spiroplasma muris, faecal cysts, resistance to physical and chemical factors tested, data may be useful for control of infection in rodents and for cryopreservation of parasite

Cysts

Lengy, J.; and Gold, D., 1978, *Israel J. Zool.*, v. 27 (4), 209-220

Cercaria levantina 14, 15, and 16, descriptions, swimming behavior, development, encystation attempts with *C. levantina* 16

Cysts

McCallister, G. L., 1979, *J. Parasitol.*, v. 65 (1), 24

Eimeria, use of commercial soft drinks as source of carbon dioxide for excystation of

Cysts

Matuschka, F. R., 1978, *Protoplasma*, v. 94 (1-2), 145-154

Toxoplasma gondii cysts in *Mastomys natalensis* (brain), ultrastructure, freeze-etch technique makes possible a clearer description of membranes than thin-section and scanning electron microscopy

Cysts

Meyer, E. A., 1979, *Environment. Protect. Technol. Ser. (EPA-600/2-79-063)*, 28 pp.

Giardia, concentration and purification of cysts from feces, induction of and determination of factors involved in excystation, effect of various storage temperatures on survival as determined by cultural excystation method

Cysts

Mitchell, J. S.; Halton, D. W.; and Smyth, J. D., 1978, *Internat. J. Parasitol.*, v. 8 (5), 389-397

Cotylurus erraticus metacercariae, excystment and growth in vitro and in vivo to egg-producing adults

Cysts

Mitra, S.; and Krishna Murti, C. R., 1978, *Proc. Indian Acad. Sci., Sect. B, Exper. Biol.*, v. 87 (1), 9-23

Entamoeba histolytica, axenically grown trophozoites, formation of round bodies or 'precysts', effect of bacterial endotoxins, starch, and epinephrine

Cysts

Mobedi, I.; Vand-Yossefi, J.; and Esterabadi, A. H., 1978, *Arch. Inst. Razi* (30), 117-128

Actinomyces bovis as possible cause for degeneration and calcification of *Cysticercus bovis* and hydatid cyst in host tissue

Cysts

Mohandas, A., 1973, *Proc. National Acad. Sci., India, Sect. B*, v. 43 (4), 273-277

Cercaria spp. in *Indoplanorbis exustus* and *Lymnaea luteola* f. typica snails, abnormal host growth, pathology of digestive gland and gonads, intra-sporocyst and intra-redial encystment of cercariae in starved snails or in moribund snails reared in polluted water containing their metabolic waste and excreta

Cysts

Mohandas, A.; and Nadakal, A. M., 1978, *Ztschr. Parasitenk.*, v. 55 (2), 139-151

Echinostoma malayanum, development in rats, heavy population density effects (lengthened prepatent period, undersized worms, decreased proteins, lipids, calcium, and ash but not glycogen); pathological changes in rat intestine; in vitro metacercarial excystment

Cysts

Molyneux, D. H.; and Bafort, J. M., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (3), 335-348

Trypanosoma vespertilionis, morphology of bloodstream forms, sites and morphology of tissue stages (in cysts), morphology and ultrastructure of culture forms, difficulties in differentiating from *T. cruzi*

Cysts

Newsome, A. L.; and Harley, J. P., 1978, *Experientia*, v. 34 (12), 1567-1568

Trichinella spiralis, rats, acceleration of cyst calcification by administration of vitamin D₃, inhibition of cyst calcification by administration of disodium ethane-1-hydroxy-1,1-diphosphonate, demonstrates that cyst calcification is not an irreversible process and is subject to drug therapy

Cysts

Osuna-Carrillo, A.; et al., 1978, *Rev. Iber. Parasitol.*, v. 38 (3-4), 569-578

Taenia hydatigena cysticerci, in vitro evagination, combined action of trypsin, pancreatin and dog bile necessary

Cysts

Patton, W. H.; and Brigman, G. P., 1979, *J. Parasitol.*, v. 65 (4), 526-530

Eimeria tenella, use of sodium taurodeoxycholate for excystation of sporozoites, far more effective than other bile salts or extracts or pooled chicken bile

Cysts

Pennoit-De Cooman, E.; and De Rycke, P. H., 1978, *Vlaams Diergeneesk. Tijdschr.*, v. 47 (3), 236-241

Echinococcus granulosus, criteria for differentiating sterile and fertile experimental secondary cysts (minimum cyst age, presence or absence of calcareous corpuscles)

Cysts

Pignatari de Martinez, F. M. R.; Monetto de Ledesma, A. M.; and Grosso, O. J., 1976, *Rev. Fac. Cien. Med. Univ. Nac. Cordoba*, v. 34 (3-4), 113-123

Trichomonas vaginalis, description of circular immobile forms seen in culture, tests for viability using several stains, several cells had multiple nuclei as though undergoing multiple nuclear division

- Cysts**
 Radlett, A. J., 1979, *Parasitology*, v. 79 (3), 411-416
Notocotylus attenuatus, in domestic fowl, in vivo excystation of metacercariae, intra-caecal growth and movement of worms, attachment of juvenile worms to host's caecum
- Cysts**
 Ravindranath, M. H.; and Anantaraman, S., 1977, *Ztschr. Parasitenk.*, v. 53 (2), 225-237
Moniliformis moniliformis cystacanth in *Periplaneta americana*, light microscopy study of capsule and relationship to host reveals cellular nature of capsule, host's haemocyte infiltration into cyst fluid, and occasional double cystacanths in single envelopes suggesting host origin of capsule
- Cysts**
 Robbins, S. H.; Hammett, M.; and Fried, B., 1979, *Internat. J. Parasitol.*, v. 9 (3), 257-260
Zygocotyle lunata, metacercarial cyst, light and transmission electron microscopy, amino acid analysis
- Cysts**
 Sadek, I. A., 1979, *Exper. Parasitol.*, v. 48 (2), 239-244
Nyctotheroides puytoraci, stimulation of encystment in *Bufo regularis* injected with urine of patients with rheumatoid arthritis, may be new biological test organism for detecting abnormalities in tryptophan metabolism of humans
- Cysts**
 Sato, Y.; et al., 1979, *Nippon Zyuisei-Kai Zassi (J. Japan Vet. Med. Ass.)*, v. 32 (3), 145-148
Fasciola, survival of metacercariae encysted on rice straws and polyethylene sheets in field, infectivity to mice measured monthly: Sendai, northern Japan
- Cysts**
 Solov'ev, M. M.; and Chentsov, Iu. S., 1970, *Parazitologiya*, Leningrad, v. 4 (6), 510-514
Lamblia muris, cysts, ultrastructure
- Cysts**
 Stotish, R. L.; Wang, C. C.; and Meyenhofer, M., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1074-1081
Eimeria tenella, oocyst wall, lipid composition, carbohydrate composition, protein content, amino acid analysis, proposed organization of cell wall, results suggest explanation for physical and mechanical resistance of oocyst wall as well as possible mechanisms for excystation of sporulated oocysts
- Cysts**
 Tados, W.; and Laarman, J. J., 1978, *Proc. K. Nederl. Akad. Wetensch., s. C, Biol. and Med. Sc.*, v. 81 (4), 469-491
Sarcocystis spp., structure of muscle cyst walls, comparative study, light and electron microscopy, useful but not infallible tool for recognizing different species
- Cysts**
 Trevoux, R.; et al., 1976, *Rev. Franc. Gynec. et Obst.*, v. 71 (1), 27-31
Trichomonas vaginalis, description of a pseudo-cyst or round form of parasite in which there is absence of undulating membranes and of flagella, this form thought to play important part in virulent human infections and in those less responsive to drug therapy
- Cysts**
 Vogel, H., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 1-11
Echinococcus multilocularis in *Microtus arvalis* (exper.), cyst growth and structure
- Cysts**
 Zdarska, Z., 1970, *Folia Parasitol.*, v. 17 (1), 31-47
Notocotylus attenuatus, cercaria, relationship of gland cells to layers of cyst wall of adolestercaria, morphology, histochemistry
- Cysts**
 Zdarska, Z., 1971, *Folia Parasitol.*, v. 18 (1), 15-25
Moliniella anceps, larval stages, histology and histochemistry of cystogenic gland cells and cyst wall, participation of gland cells of cercaria in origin of layers of cyst wall of metacercaria
- Cytochemistry.** See **Biochemistry.**
- Cytological diagnosis.** See **Diagnosis.**
- Cytology.** [See also **Morphology**]
- Cytology**
 Arme, C.; and Threadgold, L. T., 1976, *Rice Univ. Studies*, v. 62 (4), 21-34
Eubothrium crassum, presence of two types of tegumental cells and two types of unicellular glands in scolex, electron microscope study
- Cytology**
 Beadle, D. J.; and Megaw, M. W. J., 1979, *Cell and Tissue Research*, v. 202 (1), 119-124
Boophilus microplus, intracellular junctions in hypodermis, salivary gland, and Gene's organ
- Cytology**
 Benazzi, M.; and Benazzi Lentati, G., 1976, *Animal Cytogenet.*, v. 1, 182 pp.
 platyhelminthes, gametogenesis, chromosome pattern, cycles, and evolution, reproductive mechanisms, cytotaxonomy
- Cytology**
 Bogdanov, Iu. F., 1978, *Tsitologiya*, v. 20 (4), 460-463
Ascaris suum males, meiosis, unusual early formation of synaptonemal-like polycomplexes in spermatocyte cytoplasm
- Cytology**
 Bogoiavlenskii, Iu. K.; Ivanova, G. V.; and Spasskii, A. A., 1974, [Nervous system of parasitic nematodes.], 190 pp., illus.
 Nematoda, neurosecretion, nervous system, morphology, histochemistry, cytology, review monograph

Cytology

Commonwealth Institute of Helminthology, [1975 ?], Annot. Bibliogr. (23), Commonwealth Inst. Helminth., 85 pp.
helminths, cytology, annotated bibliography, 413 references

Cytology

Ishikawa, M., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (2), 109-125
Ascaris suum, bushy cells, ultrastructure and secretory function, electron microscopy

Cytology

Ishikawa, M.; and Yamada, K., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (3), 161-169
Ascaris suum, bushy cells, polysaccharide cytochemistry

Cytology

Ishikawa, M.; and Yamada, K., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (2), 91-97
Ascaris suum, epithelial cells lining esophagus-foregut connection, pronounced mitochondrial response to carbon dioxide, possible cytophysiological function as cells of anaerobic respiration

Cytology

Kundu, S. C.; and Bogdanov, I. F., 1979, Chromosoma, v. 70 (3), 375-384
Ascaris suum, late meiotic prophase nuclei of spermatocytes, ultrastructural studies

Cytology

Marchand, B.; and Mattei, X., 1978, Biol. Cell., v. 31 (1), 79-89
Acanthocephala 10 spp., nucleocytoplasmic derivative formation during spermiogenesis and its transformation after insemination

Cytology

Raikova, E. V., 1978, Tsitologiya, v. 20 (4), 384-390
Polypodium hydriforme, nematocyst development in parasitic stolon, electron microscopy

Cytology, Protozoa. [See also Morphology, Protozoa]

Cytology, Protozoa

Amos, W. B.; et al., 1979, J. Cell Sc., v. 35, 139-164
Trichomonas spp. from termites, costa: bending waves, birefringence, structure, composition (proteins, ATPase), results indicate type of motile system distinct from any hitherto described

Cytology, Protozoa

Beier, T. V.; Shibalova, T. A.; and Kostenko, L. A., 1978, [Cytology of coccidia], 185 pp., illus.

Cytology, Protozoa

Brooks, A. S., 1978, Tr. Am. Micr. Soc., v. 97 (3), 287-296
Crithidia fasciculata, Trypanosoma equiperdum, T. lewisi, ultrastructure of flagellar attachment site, thin section, freeze-etch, and cytochemical techniques

Cytology, Protozoa

de Carvalho, T. U.; Souto-Padron, T.; and de Souza, W., 1979, Exper. Parasitol., v. 47 (3), 297-304
Herpetomonas samuelpessoai, electron-dense granules, electron microscopy and cytochemistry (peroxidase activity, basic proteins, acid phosphatase)

Cytology, Protozoa

da Costa, S. C. G.; and da Silva, A. M., 1969, v. 12 (5-6), 245-246
Trypanosoma rotatorium, polymorphism, cytological aspects

Cytology, Protozoa

Desser, S. S.; and Allison, F. B., 1979, J. Parasitol., v. 65 (5), 737-744
Leucocytozoon tawaki in Austrosimulium unguatum, ultrastructure of sporogonic development, nature and significance of crystalloid inclusions

Cytology, Protozoa

Dutta, G. P., 1977, J. Scient. and Indust. Research, India, v. 36 (5), 226-240
Entamoeba histolytica and other anaerobic amoebae, cytoplasmic inclusions, recent advances in cytochemistry and ultrastructure, role in physiology and pathogenesis, review

Cytology, Protozoa

Dutta, G. P., 1979, J. Scient. and Indust. Research, India, v. 38 (4), 199-218
pathogenic and nonpathogenic aerobic free-living amoebae, characterization of cytoplasmic inclusions, cytochemistry and ultrastructure, review

Cytology, Protozoa

Ghiotto, V.; et al., 1979, Exper. Parasitol., v. 48 (3), 447-456
Trypanosoma brucei, morphometric changes and loss of infectivity and of surface coat during transformation of bloodstream forms to procyclic culture forms in vitro

Cytology, Protozoa

Gicquaud, C. R., 1979, Biol. Cell., v. 35 (3), 305-312
Entamoeba histolytica, nuclear ultrastructure, mitosis

Cytology, Protozoa

Heywood, P.; and Weinman, D., 1978, J. Protozool., v. 25 (3, pt. 2), 287-292
Trypanosoma cyclops, mitosis, ultrastructure

Cytology, Protozoa

Johnston, L. B.; Vernick, S. H.; and Sprague, V., 1978, J. Invert. Path., v. 32 (3), 278-290
Thelohania butleri n. sp., sporulation stages, light and electron microscopy; "It is concluded that sporogony by means of three binary divisions and lack of a sporogonial plasmodium may be essential characters of the genus Thelohania Henneguy, 1892."

Cytology, Protozoa

Kocan, K. M.; et al., 1978, Am. J. Vet. Research, v. 39 (7), 1131-1135
Anaplasma marginale Pawhuska isolate, ultrastructural localization of anaplasma antigens with ferritin-conjugated antibody, antigenic sites appear to be outer surface of pellicle, chromatin of initial body, and inclusion appendage

Cytology, Protozoa

Kocan, K. M.; Venable, J. H.; and Brock, W. E., 1978, *Am. J. Vet. Research*, v. 39 (7), 1123-1130

Anaplasma sp. Pawhuska isolate, heifer (exper.), ultrastructure of anaplasma inclusions and their appendages in intact and hemolyzed erythrocytes and in complement-fixation antigen, importance of preparatory treatment in visualization of inclusion bodies

Cytology, Protozoa

Linder, J. C.; and Staehelin, L. A., 1979, *J. Cell. Biol.*, v. 83 (2, pt. 1), 371-382

Leptomonas collosoma, novel model for fluid secretion by trypanosomatid contractile vacuole apparatus

Cytology, Protozoa

Loubes, C., 1979, *J. Protozool.*, v. 26 (2), 200-208

Microsporidia, synaptonemal complexes demonstrated in 6 genera but not in *Nosema*, implications for life cycles

Cytology, Protozoa

Lushbaugh, W. B.; and Pittman, F. E., 1979, *J. Protozool.*, v. 26 (2), 186-195

Entamoeba histolytica, filopodia, microscopic observations, possible functions

Cytology, Protozoa

McCaul, T. F.; and Bird, R. G., 1978, *Internat. J. Parasitol.*, v. 8 (6), 501-506

Entamoeba histolytica, *E. invadens*, trophozoites, localization of thiamine pyrophosphatase activity within cytoplasmic fine structure

Cytology, Protozoa

Molon-Noblot, S.; and Desportes, I., 1977, *Compt. Rend. Acad. Sc., Paris*, v. 285, s. D, Sc. Nat. (3), 217-219

Grebnickiella gracilis, first description of synaptonemal complexes in meiotic nucleus of sporozoan

Cytology, Protozoa

Morozova, T. I.; and Kravtsov, V. A., 1978, *Tsitologiya*, v. 20 (7), 817-819

Eimeria tenella, *E. acervulina*, sporozoites, ratio of rhoptry-microneme elements to anterior pole cytoplasm, such ratios may be species specific

Cytology, Protozoa

Nemanic, P. C.; et al., 1979, *J. Infect. Dis.*, v. 140 (2), 222-228

Giardia muris, occurrence of endosymbiotic microbes; *G. muris*, *G. lamblia*, organelle distribution

Cytology, Protozoa

Pereira, N. M.; et al., 1978, *Exper. Parasitol.*, v. 46 (2), 225-234

Trypanosoma cruzi, membrane and flagellar fractions, isolation and characterization: electron microscopy; enzyme composition; gel immunodiffusion test

Cytology, Protozoa

Philippe, M.; et al., 1979, *Biol. Cell.*, v. 35 (2), 165-174

Gregarina blaberae, glycoconjugates of cell surface studied by carbohydrate cytochemistry and biochemistry on isolated 'ghost' fraction

Cytology, Protozoa

Podlipaev, S. A., 1974, *Parazitologiya*, Leningrad, v. 8 (6), 535-542

Myxobolidae spp., polysaccharides in spores, nature of iodophilous vacuole

Cytology, Protozoa

Rondanelli, E. G.; et al., 1976, *Recenti Prog. Med.*, v. 61 (2), 137-162

Leishmania donovani and *L. tropica* promastigote forms in vitro, basis for qualifying characters of ultrastructural organization of genus *Leishmania* and aspects of its reproduction and pathogenicity; promastigote and endomastigote phases discussed

Cytology, Protozoa

Scorza, J. V., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (2), 97-105

Plasmodium tropiduri, *P. berghei*, *P. gallinaceum*, intraerythrocytic stages, morphological and enzyme cytochemical observations on phagotrophy

Cytology, Protozoa

Sessa, A.; and Berengo, A., 1970, *Boll. Soc. Ital. Biol. Sper.*, v. 46 (1), 47-48

Toxoplasma gondii, spherical bodies in cytoplasm, ultrastructure

Cytology, Protozoa

Siau, Y., 1979, *Compt. Rend. Acad. Sc., Paris*, v. 288, s. D, Sc. Nat. (4), 403-404

Myxobolus exiguus, *Ceratomyxa herouardi*, synaptonemal complexes, electron microscopic observations, implications for life cycle and classification of myxosporidians

Cytology, Protozoa

Sledge, W. E.; Larson, A. D.; and Hart, L. T., 1978, *Science* (4325), v. 199, 186-188

Tritrichomonas foetus, costae, procedure for purification, chemical composition (95% carbohydrate, 5% protein), evidence of structural association among costae, kinetosomes, and flagella

Cytology, Protozoa

Souto-Padron, T.; and de Souza, W., 1979, *J. Protozool.*, v. 26 (4), 551-557

trypanosomatids, various developmental stages, basic proteins, localization at fine-structural level with ethanolic phosphotungstic acid technique

Cytology, Protozoa

de Souza, W.; et al., 1978, *Exper. Parasitol.*, v. 45 (1), 101-115

Trypanosoma cruzi incorporates exogenous proteins by pinocytosis, pinocytic vesicles can fuse forming multivesicular structures, cell membrane and membranes of pinocytic vesicles and large multivesicular structures contain carbohydrates, many intramembranous particles in cell membrane but few or none in membranes of vesicles and multivesicular structures

Cytology, Protozoa

de Souza, W.; and Souto-Padron, T., 1978, *Ztschr. Parasitenk.*, v. 56 (2), 123-129

Toxoplasma gondii, basic proteins, ultrastructural location on conoid, rhoptries and micronemes, possible role in penetration

Cytology, Protozoa

Stevens, A. R.; Gallup, E. D.; and Willaert, E., 1978, *J. Invert. Path.*, v. 31 (1), 63-76
Naegleria spp., evaluation of membrane-bound black bodies, found to be characteristic of trophozoites and unrelated to encystment

Cytology, Protozoa

Takahashi, Y.; and Sherman, I. W., 1978, *Exper. Parasitol.*, v. 44 (2), 145-154
Plasmodium lophurae, differentiation of parasite membrane, parasitophorous vacuole membrane, and duck erythrocyte membrane with cationized ferritin staining as an electron microscope cytochemical method

Cytology, Protozoa

Vickerman, K., 1977, *Protozoology*, v. 3, 57-69
Trypanosoma evansi, SAK strain, 4¹-6-diamidino-2-phenylindole (DAPI) staining of kinetoplast, dyskinetoplasty mutation, pleomorphism, comparison with other flagellates

Cytology, Protozoa

Vinnikova, N. V.; and Golikova, M. N., 1978, *Tsitologiya*, v. 20 (7), 731-735
Nyctotherus cordiformis, developed polytene chromosomes in macronuclear anlage, ultrastructure

Cytology, Protozoa

Vivares, C. P.; and Sprague, V., 1979, *J. Invert. Path.*, v. 33 (1), 40-52
Ameson pulvis, fine structure and its implications for classification and chromosome cycle

Cytology, Protozoa

Waldrop, F. S.; Younker, T. D.; and Puchtler, H., 1979, *Histochemistry*, v. 63 (1), 1-6
Pneumocystis carinii, histochemical observations, selective coloration of membranes of honeycomb forms, simultaneous demonstration of honeycomb and cyst forms

Cytology, Protozoa

Weik, R. R.; and John, D. T., 1978, *J. Parasitol.*, v. 64 (4), 746-747
Naegleria fowleri, average number of nuclei per amoeba, macromolecular composition (mass, protein, RNA, DNA, carbohydrate), changes during growth in vitro

Czechoslovakia

Pejcoch, M., 1977, *Casop. Slezsk. Muz.*, s. A., v. 26 (1), 71-76
 human intestinal parasites reported by age groups: okrese Bruntal
(Ascaris lumbricoides; Trichuris trichiura; Enterobius vermicularis; Strongyloides stercoralis; Giardia lamblia; Entamoeba coli; E. histolytica; E. hartmanni; Endolimax nana; Iodamoeba buetschlii)

Czechoslovakia

Prokopic, J.; and Krivanec, K., 1975, *Acta Scient. Nat. Brno*, n. S., v. 9 (3), 48 pp.
 helminths of amphibians, incidence, host affinities: Czechoslovakia

Czechoslovakia

Prokopic, J.; and Pavlasek, I., 1977, *Vet. Med., Praha*, v. 50, v. 22 (8), 505-512
 endoparasites, calves, coprological examination in large-capacity calf-houses, parasite number and extensity of invasion increases with age: Benesov district, Central-Bohemian region
(Eimeria auburnensis; E. alabamensis; E. bovis; E. cylindrica; E. ellipsoidalis; E. sub-spherica; E. zuernii; Isospora spp.; Strongyloides papillosus; Oesophagostomum radiatum; Trichocephalus ovis; Cooperia spp.; Ascaris suum)

Czechoslovakia

Vojtkova, L., 1976, *Scripta Fac. Scient. Nat. Univ. Purkynianae Brun.*, Biol., v. 6 (5), 177-209
 Protozoa of amphibians

Czechoslovakia

Vokoun, P.; and Slezakova, J., 1977, *Vet. Med., Praha*, v. 50, v. 22 (6), 367-376
 parasites of digestive tract, city dogs and cats, coprological examination: Prague dogs (*Toxocara canis; Taenia pisiformis; Dipylidium caninum; Isospora*)
 cats (*Toxocara cati; Taenia taeniaeformis; Dipylidium caninum; Isospora*)

DNA. See Nucleic acids.

Definitions. See Terminology.

Denmark

- Engbaek, K.; and Larsen, S. O., 1978, Ugeskr. Laeger, v. 140 (1), 9-13
intestinal parasites in school children, incidence survey, correlations between incidence and social parameters: Denmark (Giardia lamblia; Chilomastix mesnili; Pentatrichomonas hominis; Entamoeba coli; E. histolytica; E. suis; Endolimax nana; Dientamoeba fragilis; Enterobius vermicularia; Trichuris trichiura; Necator americanus; Ascaris lumbricoides)

Denmark

- Hallas, T. E., 1978, Entom. Medd., København, v. 46 (1), 27-45
check list of Danish Acari

Denmark

- Kristensen, S.; Haarløv, N.; and Mourier, H., 1978, Nord. Vet.-Med., v. 30 (10), 401-413
fleas, cats and dogs, patterns of infestation, seasonal prevalence, parasite sex ratio, probable causes of increased incidence, public health importance: Denmark cats (Ctenocephalides felis; C. canis; Archaeopsylla erinacei)
dogs (Ctenocephalides felis; C. canis; Archaeopsylla erinacei; Pulex irritans; Ceratophyllus gallinae)

Denmark

- Prag, J.; Nørredam, K.; and Hardvandel, U., 1978, Ugeskr. Laeger, v. 141 (44), 3022-3028
parasite survey, 150 Vietnamese Mon-Khmers during their first 30 months after arrival in Denmark
(Entamoeba histolytica; Giardia lamblia; Plasmodium falciparum; P. vivax; Entamoeba coli; Endolimax nana; Iodamoeba buetschilii; Entamoeba hartmanni; Pediculus capitis; Sarcoptes scabiei; Ascaris; Ancylostoma duodenale; Strongyloides stercoralis)

Dermal tests. See Immunity, Skin tests.

Dermatitis. [See also Skin]

Dermatitis, Arthropoda

- Bland-van den Berg, P., 1977, J. South African Vet. Ass., v. 48 (4), 247-253
canine dermatitis, broad review of etiology, pathogenesis, diagnosis, and treatment

Dermatitis, Arthropoda

- Hiepe, T.; et al., 1978, Monatsh. Vet.-Med., v. 33 (23), 901-904
Caloglyphus berlesei, sheep, enzootic occurrence, pruritis, wool loss, and dermal lesions, controlled by immediate shearing, perdix PE 50, and moving entire herd to clean sheep pen

Dermatitis, Arthropoda

- Joseph, S. A., 1977, Indian J. Animal Research, v. 11 (2), 84-86
Ctenocephalides felis orientis in 4 human volunteers, dermatitis, immediate and delayed hypersensitivity

Dermatitis, Arthropoda

- Keh, B., 1974, J. Med. Entom., v. 11 (4), 498
Chiroptonyssus robustipes, dermatitis of face and abdomen in 18-month-old boy: near Ingot, Shasta County, California

Dermatitis, Arthropoda

- Kristensen, S.; and Kieffer, M., 1978, Nord. Vet.-Med., v. 30 (10), 414-423
flea allergy in dogs and cats, intradermal test with whole extract of Ctenocephalides felis; test evaluation procedure

Dermatitis, Arthropoda

- McKeever, P. J.; and Allen, S. K., 1979, J. Am. Vet. Med. Ass., v. 174 (7), 718-720
Cheyletiella spp., cats, pruritic dermatitis, pyrethrins, malathion 57

Dermatitis, Arthropoda

- Musatov, V. A., 1978, Veterinariia, Moskva (6), 57-61
ixodid ticks, pathology of host skin reaction to bite and feeding, nonspecific (innate) reaction and specific immune reaction

Dermatitis, Arthropoda

- Nesbitt, G. H.; and Schmitz, J. A., 1978, J. Am. Vet. Med. Ass., v. 173 (3), 282-288
fleabite allergic dermatitis, review and survey of 330 cases, dogs, clinical signs, diagnosis, histopathology, treatment program (break flea life cycle, minimize infestation of all animals in household using insecticidal dips, baths, and collars, hyposensitization with flea antigen)

Dermatitis, Arthropoda

- Rufli, T.; and Mumcuoglu, Y., 1979, Praxis, Bern, v. 68 (44), 1441-1452
lice, biology, elimination and prevention of human infestations, extensive clinical review

Dermatitis, Nematoda

- Burchard, G. D.; and Bierther, M., 1978, Tropenmed. u. Parasitol., v. 29 (4), 451-461
Onchocerca volvulus, patients, dermatitis, mesenchyme reaction of skin; ultrastructure of microfilariae: Liberia

Dermatitis, Nematoda

- Connor, D. H., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 209-214
Onchocerca volvulus, human, pathogenesis of onchocercal dermatitis, current concepts

Dermatitis, Nematoda

- Cotofan, O.; Minascurta, C.; and Tepordei, V., 1977, Lucrar. Stiint. Inst. Agron. I. Ionescu Brad Iasi, s. Zooteh.-Med. Vet., 93-94
strongyloid dermatitis, sheep, histopathology

Dermatitis, Nematoda

- Koshy, A.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 42-45
Ancylostoma duodenale, outbreak of disease in 27 young males after playing local game on field heavily contaminated with nightsoil, unusual clinical features, treatment: India

Dermatitis, Nematoda

- Oduye, O. O., 1971, J. Comp. Path., v. 81 (4), 581-583
Stephanofilaria sp., cattle, dermatitis, gross and histopathology of lesions: Northern States of Nigeria

Dermatitis, Nematoda

- Pasyk, K., 1978, Brit. J. Dermat., v. 98 (1), 107-112
Rhabditis strongyloides causing pruritic dermatitis in 11-year-old girl, clinical case report, differential diagnosis, family dog as possible source of infection: Poland

Dermatitis, Protozoa

- Maru, M.; and Mengistu, M., 1979, East African Med. J., v. 56 (6), 288-290
Plasmodium falciparum as cause of acute urticaria, 2 case reports: Ethiopia

Dermatitis, Protozoa

- Uilenberg, G.; and Zwart, D., 1979, Research Vet. Sc., v. 26 (2), 243-245
Theileria parva, calves (exper.) with advanced East Coast fever, occurrence of skin nodules with schizonts and/or skin nodules with *Demodex bovis*

Dermatitis, Schistosome. See Dermatitis, Trematoda.

Dermatitis, Trematoda

- Kravitz, P.; and Lewis, M., 1977, Rhode Island Med. J., v. 60 (8), 382-383
Austrobilharzia variglandis causing swimmer's itch in humans, clinical aspects, cercarial life cycle, transmission in waters of Rhode Island

Dermatitis, Trematoda

- Lien, C. A.; et al., 1975, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 21 (2), 183-189
Orientobilharzia turkestanica var. *tuberculata*, aetiological agent of rice-field dermatitis, life history: Chengnan People's Commune, Hailung Hsien, Kirin Province

Dermatitis, Trematoda

- Rohde, K., 1977, Ztschr. Parasitenk., v. 52 (1), 39-51
Austrobilharzia terrigalensis, synonymy, description, life cycle, failure to produce cercarial dermatitis in humans

Dermatitis, Trematoda

- Rohde, K., 1978, Search, v. 9 (1-2), 40-42
Gigantobilharzia sp., description, potential agent of dermatitis: Heron Island (southern end of Great Barrier Reef, 80 km from mainland), Australia

Dermatitis, Trematoda

- Sahba, G. H.; and Malek, E. A., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 912-913
Orientobilharzia turkestanicum, cause of cercarial dermatitis among rice farmers: Caspian Sea area of Iran

Dermatitis, Trematoda

- Scott, M. E.; and Burt, M. D. B., 1976, Canad. J. Zool., v. 54 (12), 2200-2207
Cercaria catascopii n. sp., causative agent of swimmers' itch, distribution of infected snails in lakes of recreational importance: New Brunswick, Canada

Dermatitis, Trematoda

- Sekla, L.; et al., 1978, Canad. J. Pub. Health, v. 69 (6), 475-480
 endemic and imported parasitic diseases, humans, pilot survey, fecal and serologic tests; cercarial dermatitis difficult to detect as recreational waters were treated with copper sulfate: Manitoba

Dermatitis, Trematoda

- Wills, W.; et al., 1976, Pub. Health Rep., U.S. Pub. Health Serv., v. 91 (5), 469-470
Trichobilharzia sp., children developed swimmer's itch dermatitis after swimming in farm pond which was discovered to contain *Trichobilharzia*-infected snails (*Physa heterostropha*), pond was also used by domestic ducks and geese and by migratory waterfowl, clinical report: farm pond near Harrisburg, Pennsylvania

Dermatitis, Trematoda

- Yokogawa, M.; et al., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (5), 366-370
Trichobilharzia found in *Austropeplea ollula* and *Anas poecilorhyncha*, strongly suspected to be cause of dermatitis among farmers working in paddy fields: Noda city, Chiba prefecture

Desiccation. [See also Humidity; Water]

Desiccation

- Alboiu, M.; Popescu, S.; and Negru, D., 1978, Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur, v. 13, 165-171
Trichinella spiralis larvae in experimentally infested swine meat, morphological changes and viability following freezing and cryodesiccation

Desiccation

- Berger, V. Ia.; and Kondratenkov, A. P., 1974, Parazitologiya, Leningrad, v. 8 (6), 563-564
 larval trematode-infected *Hydrobia ulvae*, lowered resistance to desiccation and fresh water

Desiccation

- Healy, J. A., 1979, Genetica, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Desiccation

- Iusupov, K. A.; and Shchetkin, V. Iu., 1971, Parazitologiya, Leningrad, v. 5 (3), 209-211
Leishmania tropica major, optimum procedure for lyophilization of cultures

Desiccation

- Kunstyr, I.; and Ammerpohl, E., 1978, Lab. Animals, v. 12 (2), 95-97
Spironucleus muris, faecal cysts, resistance to physical and chemical factors tested, data may be useful for control of infection in rodents and for cryopreservation of parasite

Desiccation

- Nath, S., 1978, Experientia, v. 34 (5), 580-582
Strongyloides papillosus, effect of relative humidity on eggs and larvae

Desiccation

- Nwosu, A. B. C., 1978, Bull. Animal Health and Prod. Africa, v. 26 (1), 49-53
Ancylostoma tubaeforme, eggs and third-stage larvae, survival of desiccation under defined relative humidities at high temperatures in the laboratory

Desiccation

- Rondelaud, D.; and Barthe, D., 1978, Ann. Parasitol., v. 53 (2), 201-213
Fasciola hepatica, development of redial generations in *Lymnaea truncatula* in relation to temperature, desiccation of habitat, and host body size

Desiccation

- Stradowski, M., 1974, Acta Parasitol. Polon., v. 22 (35-44), 415-422
Amidostomum anseris, eggs and larvae, development, resistance to various temperatures and desiccation under laboratory conditions

Desiccation

- Wharton, D. A., 1979, Exper. Parasitol., v. 48 (3), 398-406
Ascaris lumbricoides, eggs, effect of humidity on embryonic development, rate of water loss during desiccation, effect of temperature on water loss

Desiccation

- Zurliński, P., 1978, Vet. Med. Nauki, v. 15 (7), 107-116
Nematodirus spathiger eggs and larvae in water, dry, and in feces, effects of freezing or high temperatures

Development. [See also Embryology; Growth; Life cycle]

Development

- Kennedy, C. R., 1970, Symposia Brit. Soc. Parasitol., v. 8, 145-159
 helminths of British freshwater fish, population biology: the systems approach; distribution of parasites in the fish population; intermediate host-parasite systems; definitive host-parasite systems (life span and maturation cycle, population changes and their controlling factors, species exhibiting and not exhibiting seasonal cycles in incidence)

Development

- Vasilev, I., 1976, Khelmintologiya, Sofia, v. 2, 32-41
 host categories (obligatory, paratenic, and potential) and their role in helminth ontogenesis

Development, Acanthocephala

- Amin, O. M., 1978, J. Fish Dis., v. 1 (2), 195-197
Echinorhynchus salmonis in *Oncorhynchus tshawytscha* (intestine), maturation and localization in spawning vs. non-spawning hosts: Lake Michigan

Development, Acanthocephala

- Byram, J. E.; and Byram, K. W., 1976, Rice Univ. Studies, v. 62 (4), 43-67
Moniliformis dubius, larval morphogenesis in *Periplaneta americana*, effect of temperature, season, photoperiod, and elevated temperature stress, morphological anomalies

Development, Acanthocephala

- Holcman-Spector, B.; Mane-Garzon, F.; and Dei-Cas, E., 1977, Rev. Biol. Uruguay, v. 5 (2), 67-76
Falsificollis sp., invaginated and dis-invaginated larvae, description, sexual dimorphism in relation to size

Development, Acanthocephala

- Marchand, B.; and Mattei, X., 1978, J. Ultrastructure Research, v. 63 (1), 41-50
Neoechinorhynchus agilis, flagellogenesis, positioning and disorganization of spermatogenic axoneme

Development, Acanthocephala

- van Maren, M. J., 1979, Bijdr. Dierk., Amsterdam, v. 48 (2), 97-110
Pomphorhynchus laevis and *Polymorphus minutus* in *Gammarus fossarum*, occurrence and infestation rates in relation to intermediate host life cycle, occurrence in final hosts, parasite membrane, parasitic castration of intermediate host, development of *P. laevis* in *Thymallus thymallus* (nat. and exper.): Rhone river system, near Lyon

Development, Arthropoda

- Belozerov, V. N., 1971, Parazitologiya, Leningrad, v. 5 (6), 481-487
Ixodes ricinus, unfed nymphs, effect of changes in photoperiodic regime on development after engorgement

Development, Arthropoda

- Belozerov, V. N.; and Luzev, V. V., 1974, Parazitologiya, Leningrad, v. 8 (6), 515-523
Haemaphysalis longicornis, effect of photoperiod and temperature on behavior and development of larvae and nymphs

Development, Arthropoda

- Berdyev, A., 1972, Parazitologiya, Leningrad, v. 6 (1), 30-34
Hyalomma asiaticum asiaticum, duration of life cycle in natural biotopes (burrows of [*Rhombomys opimus*]), temperature requirements: Turkmenia

Development, Arthropoda

- Borozdina, N. I., 1974, Parazitologiya, Leningrad, v. 8 (5), 438-446
Oedemegena tarandi, 2nd and 3rd stage larvae, age-related changes in content of moisture, dry matter, fat, glycogen, total nitrogen, and protein

Development, Arthropoda

- Breev, K. A., 1975, Parazitologiya, Leningrad, v. 9 (2), 147-154
Oestrus ovis, factors causing inhibition of development and determining age structure of populations

Development, Arthropoda

- Breev, K. A.; and Sultanov, F. R., 1975, Parazitologiya, Leningrad, v. 9 (1), 47-56
Oestrus ovis, sheep, body length of 1st instar larvae and body weight of 2nd and 3rd instar larvae at different times of year and in different regions, statistical analysis, implications for course of development: Azerbaidzhan

Development, Arthropoda

- Bukshtynov, V. I., 1978, Veterinariia, Moskva (9), 60-62
Oestrus ovis, sheep, temperature as most significant factor in predicting time of development in relation to season

- Development, Arthropoda
Campbell, A.; and Glines, M. V., 1979, *J. Parasitol.*, v. 65 (5), 777-781
Haemaphysalis leporispalustris, development, survival, and oviposition at 5 constant temperatures
- Development, Arthropoda
Cerny, V.; and de la Cruz, J., 1971, *Folia Parasitol.*, v. 18 (1), 73-78
Boophilus microplus, development and survival in laboratory and natural conditions: Cuba
- Development, Arthropoda
Chmela, J.; and Lichard, M., 1971, *Folia Parasitol.*, v. 18 (1), 79-83
Ixodes hexagonus, development of individual stages, 3-year developmental cycle predominant, tick-borne encephalitis natural focus: North Moravia
- Development, Arthropoda
Crystal, M. M.; and Guillot, F. S., 1978, *Ann. Entom. Soc. Am.*, v. 71 (2), 243-246
Cochliomyia hominivorax, field-collected and laboratory reared females, correlation of changes in flight behavior of aging female with changes in ovarian development
- Development, Arthropoda
Doube, B. M., 1975, *J. Med. Entom.*, v. 12 (2), 240-243
Ornithodoros gurneyi, laboratory rearing technique, feeding and detaching, molting and development, mating and oviposition, reproductive diapause, effects of temperature, photoperiod, and pressure
- Development, Arthropoda
Dubinina, E. V., 1971, *Parazitologiya, Leningrad*, v. 5 (6), 488-494
Listrophorus validus, *Schizocarpus numerosus*, developmental cycle, morphogenesis
- Development, Arthropoda
Dudzinski, W., 1970, *Acta Parasitol. Polon.*, v. 18 (42-50), 555-572
Cephenemyia stimulator in *Capreolus capreolus*, distribution within head cavity, seasonal incidence and development of larval stages throughout year, experimental infection of host, rearing of imagoes, unsuccessful attempts to catch imagoes in the field: Poland
- Development, Arthropoda
Gerasimova, N. G., 1971, *Parazitologiya, Leningrad*, v. 5 (2), 137-139
Xenopsylla skrjabini, *X. nuttalli*, females, rate of maturation (as assessed by darkening of spermatheca) depends upon number of feedings and environmental temperature
- Development, Arthropoda
Grabda, J., 1973, *Acta Ichthyol. et Piscat.*, v. 3 (1), 61-74
Cecrops latreillii, morphology and development
- Development, Arthropoda
Hafez, M.; and Hilali, M., 1978, *Vet. Parasitol.*, v. 4 (3), 275-288
Hippobosca longipennis, biology in Egypt, laboratory observations: adult emergence, feeding mechanism, frequency and amount of blood meal, tolerance to starvation, sexual maturity, mating behavior, sex ratio, intra-uterine larval development, larviposition and description of 3rd larval stage, adult longevity and fecundity, description of pupa, pupal duration (effect of temperature, relative humidity, and host)
- Development, Arthropoda
Hafez, M.; Hilali, M.; and Fouda, M., 1977, *Ztschr. Ang. Entom.*, v. 83 (4), 426-441
Hippobosca equina, field-collected and laboratory-reared on guinea pigs, biology, adult males vs. females (feeding, longevity of starved adults in 2 seasons, longevity of normal adults and fecundity in 2 seasons, effect of presence of males on fecundity of females, sexual maturation, sex ratio); larval stage (larviposition, description, and duration of 3rd larval stage; seasonal intra-uterine larval development); pupal stage (duration, effect of temperature and humidity)
- Development, Arthropoda
Heath, A. C. G., 1979, *Internat. J. Parasitol.*, v. 9 (1), 33-39
Haemaphysalis longicornis, *Ixodes holocyclus*, and *Rhipicephalus sanguineus* eggs, temperature and humidity preferences
- Development, Arthropoda
Hefnawy, T.; Khalil, G. M.; and Sidrak, W., 1979, *J. Med. Entom.*, v. 15 (5-6), 445-451
Ornithodoros savignyi, blood meal weight and heme content during developmental cycles, technique for determining exact instar
- Development, Arthropoda
Honzakova, E., 1971, *Folia Parasitol.*, v. 18 (4), 357-363
ticks, development under standard laboratory conditions
- Development, Arthropoda
Isaac, I. S., 1977, *J. Med. Entom.*, v. 13 (4-5), 609-611
Argas arboreus, effect of blood meal weight on nymphal instar numbers
- Development, Arthropoda
Iurgenson, I. A.; and Teplykh, V. S., 1971, *Parazitologiya, Leningrad*, v. 5 (2), 119-127
Ctenophthalmus orientalis, preimaginal phases, effect of temperature and relative humidity on survival and development
- Development, Arthropoda
Johannessen, A., 1978, *Sarsia*, v. 63 (3), 169-176
Lepeophtheirus salmonis on *Salmo salar*, morphology of first and second nauplius, behaviour of free-living larval stages, egg-bearing period and developmental time are inversely related to temperature

- Development, Arthropoda
Kabata, Z., 1969, J. Fish Research Bd. Canada, v. 26 (4), 921-934
Phrioxcephalus cinnatus in *Atherestes stomias*, morphology, metamorphosis, effect on eye of parasite's presence and activity: Barkley Sound, west coast of Vancouver Island; sea area adjacent to west coast of Vancouver Island
- Development, Arthropoda
Kamala Bai, M.; and Prasad, R. S., 1979, Entom. Exper. et Applic., v. 26 (1), 80-84
Xenopsylla cheopis, *X. astia*, role of dietary components in vitellogenesis
- Development, Arthropoda
Karpovich, V. N., 1970, Parazitologiya, Leningrad, v. 4 (4), 345-351
Ceratixodes putus, incidence on adult and juvenile birds, distribution of various life cycle stages on host in relation to surface temperatures of various sections of body, dates of attacking behavior and development in relation to temperature and microclimate of habitats: east Murmansk
- Development, Arthropoda
Knapp, F. W.; et al., 1979, Ann. Entom. Soc. Am., v. 72 (3), 331-333
Gasterophilus intestinalis 3rd instars artificially removed from stomachs of horses at various times of year, viability and maturation potential, effect of holding temperatures, humidity, and instar maturity on rate of development and percent pupation and eclosion
- Development, Arthropoda
Koch, H. G.; and Hair, J. A., 1975, J. Med. Entom., v. 12 (2), 213-219
Amblyomma maculatum, effect of host species on engorgement weight, time, and success, molted weight, molted adult dimensions, and percentage of molting success, engorgement time and success were host-species dependent
- Development, Arthropoda
Kosminskii, R. B.; et al., 1979, Vestnik Zool. Akad. Nauk Ukrainsk. SSR, Inst. Zool. (2), 48-53
Amphipsylla rossica, ecology, field and laboratory studies: feeding, reproduction, development, survival, and longevity under various conditions of temperature and humidity; age composition and physiological state of populations in different months; abundance on *Microtus arvalis* and in its nests and burrow entrances in different months: Transcaucasian highlands
- Development, Arthropoda
McDaniel, R. S. II; and Oliver, J. H., jr., 1978, J. Parasitol., v. 64 (3), 571-573
Dermacentor variabilis nymphs, effects of insect growth regulators on certain aspects of developmental and reproductive biology
- Development, Arthropoda
Madel, G., 1971, Folia Parasitol., v. 18 (1), 85-91
Crivellia silenensis, goat, larval stages described, influence of field temperatures on development: Badakhshan, Afghanistan
- Development, Arthropoda
Nahif, A. A., 1978, Ang. Parasitol., v. 19 (3), 162-167
Przhevalskiana silenensis, ontogenesis of integument during different larval stages, histomorphology
- Development, Arthropoda
Orichova, M.; Osman, O. M.; and Ali, A. A., 1978, Bull. Animal Health and Prod. Africa, v. 26 (4), 321-328
Argas persicus, distribution in poultry farms, egg and larval development studied at various humidities: Khartoum Province, Sudan
- Development, Arthropoda
Roy, P.; and Dasgupta, B., 1971, South African J. Med. Sc., v. 36 (4), 85-91
blowflies, parasitic development on living vertebrates, preference for brain tissue when feeding, invertebrates were poor breeding material
- Development, Arthropoda
Sultanov, F. R., 1974, Parazitologiya, Leningrad, v. 8 (2), 147-156
Oestrus ovis, sheep, extensity and intensity of infection, time of development, localization of different stage larvae within host, time and distance of flight of adult females: lowland, foothill, and mountain zones of Azerbaidzhan SSR
- Development, Arthropoda
Tashkinov, N. I., 1972, Parazitologiya, Leningrad, v. 6 (4), 326-333
Oedemagena tarandi in reindeer of different age and sex groups, larval development, larval emergence, flight and attacking activity of imago: seasonal and daily dynamics, weather effects, other factors
- Development, Arthropoda
Tashkinov, N. I., 1973, Parazitologiya, Leningrad, v. 7 (5), 465-472
Oedemagena tarandi, rate of development and survival in [*Rangifer tarandus*] (exper.)
- Development, Arthropoda
Tukahirwa, E. M., 1976, Bull. Entom. Research, v. 66 (2), 301-312
Rhipicephalus appendiculatus, temperature, humidity, and vegetation, effects on development and survival
- Development, Arthropoda
Uspenskii, I. V., 1977, Zool. Zhurnal, v. 56 (5), 786-788
Dermacentor silvarum, egg batches in constant humidity conditions, weight changes during development
- Development, Arthropoda
Zolotova, S. I.; and Afanas'eva, O. V., 1971, Parazitologiya, Leningrad, v. 5 (4), 364-368
Ctenophthalmus dolichus, rate of development in relation to temperature and humidity
- Development, Arthropoda
Zolotova, S. I.; and Iakunin, B. M., 1973, Parazitologiya, Leningrad, v. 7 (1), 24-30
Pulex irritans, rate of development under different experimental conditions of temperature and humidity

Development, Cestoda

Andersen, K., 1978, *Parasitology*, v. 77 (1), 111-120

Diphyllbothrium latum, growth and development in *Mesocricetus auratus* and *Alopex lagopus*, comparison with *D. dendriticum* and *D. ditremum*, implications of observed differences between these three species to classification of diphyllbothriid cestodes

Development, Cestoda

Begoian, Zh. T., 1977, *Biol. Zhurnal Armenii*, v. 30 (5), 79-84

Khawia armeniaca, morphogenesis in definitive host *Varicorhinus capoeta sevangi*: various areas of Sevan island

Development, Cestoda

Bieler, J.; and Jones, A. W., 1971, *Radiation Research*, v. 45 (1), 182-190

Hymenolepis microstoma, ionizing radiation of cysticercoids causes delay in development of tapeworm with length of delay depending on developmental stage during which cysticercoïd is irradiated, delay greatest on days 3 and 4 of development

Development, Cestoda

Bondarenko, S. K.; and Krasnoshchekov, G. P., 1978, v. 57 (4), 485-494

Aploparaksis birulai, postembryonic development in *Lumbriculus*, morphological and histological descriptions; cysticercoïd is floricerc type

Development, Cestoda

Buhler, G. A., 1970, *J. Wildlife Dis.*, v. 6 (3), 149-151

Ophiotaenia gracilis, development of larval stages in *Eucyclops agilis* (exper.)

Development, Cestoda

Chowdhury, N.; and DeRycke, P. H., 1976, *Acta Parasitol. Polon.*, v. 24 (1-10), 93-102

Hymenolepis microstoma, early post-embryonic development, morphogenesis with particular attention to calcareous corpuscles

Development, Cestoda

Chowdhury, N.; and De Rycke, P. H., 1977, *Ztschr. Parasitenk.*, v. 53 (2), 159-169

Hymenolepis microstoma, calcareous capsules in cysticercoïds and adults, structure, processes of formation, and possible functions

Development, Cestoda

Chowdhury, N.; and Singh, A. I., 1978, *Ztschr. Parasitenk.*, v. 56 (3), 309-312

Raillietina tetragona, *R. tunetensis*, distribution of calcareous corpuscles in pre-gravid and gravid proglottids and role in formation of egg-pouches

Development, Cestoda

Coil, W. H., 1977, *Ztschr. Parasitenk.*, v. 52 (3), 311-318

Shipleya inermis, embryogenesis of oncosphere, scanning and transmission electron microscopy of submucosal capsule, outer capsule, outer envelope

Development, Cestoda

Coil, W. H., 1979, *Ztschr. Parasitenk.*, v. 59 (2), 151-159

Cittotaenia variabilis, embryogenesis, transmission and scanning electron microscopy

Development, Cestoda

Davydov, O. N., 1978, *Gidrobiol. Zhurnal*, v. 14 (4), 70-77

Bothriocephalus gowkongensis in cyprinid fishes, growth, development, and fertility in relation to temperature, host age and diet, and intensity of invasion

Development, Cestoda

Davydov, V. G., 1975, *Inform. Biul. Inst. Biol. Vnutren. Vod, Akad. Nauk SSSR* (27), 17-20

Triaenophorus nodulosus, localization and dynamics of glycogen and lipids in all developmental stages

Development, Cestoda

Hulinska, D.; and Slais, J., 1977, *Zool. Anz., Jena*, v. 198 (1-2), 75-83

Multiceps endotheracicus, morphogenesis of infective larval stages

Development, Cestoda

Ito, A.; Yamamoto, M.; and Okamoto, K., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (6), 345-349

Hymenolepis nana, application of Ito's method to collection of early tissue stages from mouse intestine, development of infective cysticercoïds

Development, Cestoda

Jarecka, L., 1975, *Acta Parasitol. Polon.*, v. 23 (1-11), 93-114

ontogeny and evolution of cestodes

Development, Cestoda

Jogis, V., 1978, *Eesti NSV Teaduste Akad.*

Toimetised, v. 27, *Biol. ser.* (1), 51-57

Dioecocystus asper, development, dioecious cysticercoïds containing unusually long, sterile strobilae, cirri in sterile proglottids of male worms, gonads develop only in new proglottids in final host intestine, sterile proglottids expelled

Development, Cestoda

Kuperman, B. I., 1973, *Lentochyne chervi roda Triaenophorus--parazity ryb. Eksperimental'naiia sistematika, ekologiya* [Tapeworms of the genus *Triaenophorus*--parasites of fish. Experimental systematics, ecology] 207 pp.

Triaenophorus, monographic review of morphology, life cycle, development, geographic distribution, interrelation with host and pathogenic role, host specificity, evolution, species formation; key to species, host list, synonymy, includes: *T. nodulosus* (Pallas, 1781); *T. amurensis* Kuperman, 1968; *T. stizostedionis* Miller, 1945; *T. crassus* Forel, 1868; *T. meridionalis* Kuperman, 1968; *T. orientalis* Kuperman, 1968

Development, Cestoda

Kuperman, B. I., 1978, *Dokl. Akad. Nauk SSSR*, v. 242 (1), 245-248

Eubothrium rugosum, *Bothriocephalus gowkongensis*, oncosphere, procercoïd, plerocercoid, tegument ultrastructure; evolution of cestode tegument briefly discussed

Development, Cestoda

- Lee, Y. C.; et al., 1978, J. Chinese Soc. Vet. Sc., v. 4 (1), 29-33
Cysticercus tenuicollis, scolex structure, maturation to mature *Taenia hydatigena* in dogs (exper.)

Development, Cestoda

- Machnicka, B.; et al., 1977, Acta Parasitol. Polon., v. 25 (1-10), 55-62
Cysticercus bovis in calves (exper.), morphogenesis, localization, host tissue reaction, immunological findings in indirect immunofluorescence test, histological and histochemical study of bladder

Development, Cestoda

- Maksimova, A. P., 1972, Parazitologiya, Leningrad, v. 6 (3), 283-290
Retinometra guberiana, *Parabisaccanthes philactes*, experimental development in intermediate hosts (cyclops)

Development, Cestoda

- Misiura, M.; and Szelenska, D., 1975, Acta Parasitol. Polon., v. 23 (26-40), 347-353
Sobolevicanthus gracilis, *Retinometra guberiana*, differentiation of larvae on the basis of development in different intermediate hosts and morphology: Guber Lake, Mazurian Lakeland

Development, Cestoda

- Moczon, T., 1971, Acta Parasitol. Polon., v. 19 (19-28), 269-274
Hymenolepis diminuta, histochemical study of development of embryonic hooks

Development, Cestoda

- Onyango-Abuje, J. A., 1978, Bull. Animal Health and Prod. Africa, v. 26 (1), 17-22
Taenia saginata, development of gamma-irradiated oncospheres in calves

Development, Cestoda

- Orr, T. S. C.; and Hopkins, C. A., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 741-752
Schistocephalus solidus, procedures for maintenance in laboratory, growth of plerocercoids, relationship between number of proglottids and weight (age) of plerocercoid

Development, Cestoda

- Pavliuk, R. S., 1973, Parazitologiya, Leningrad, v. 7 (4), 353-356
Tatria decacantha cysticercoids in dragonfly intermediate hosts, growth and development, morphology: western regions of the Ukraine

Development, Cestoda

- Safronov, I. V., 1977, Vet. Nauka--Proizvod., Trudy, Minsk, v. 15, 78-86
Taeniarrhynchus saginatus, developmental stages in calves and hamsters

Development, Cestoda

- Sakamoto, T., 1978, Mem. Fac. Agric. Kagoshima Univ. (23), v. 14, 109-115
Echinococcus multilocularis, cells derived from germinal layer, development in vitro and in vivo (in diffusion chambers implanted in abdominal cavity of laboratory rodents) compared

Development, Cestoda

- Skriabin, A. S., 1972, Parazitologiya, Leningrad, v. 6 (5), 426-434
Phyllobothrium, life cycle, morphology of larval stages

Development, Cestoda

- Solonenko, I. G., 1970, Parazitologiya, Leningrad, v. 4 (5), 476-479
Hymenolepis nana, rats experimentally infected with eggs, occurrence of migration to mesenteric lymph nodes (with development to young adults) and liver (cysticercoids found)

Development, Cestoda

- Stallard, H. E.; and Arai, H. P., 1978, Canad. J. Zool., v. 56 (1), 90-93
Hymenolepis peromysci, growth and development of cysticercoids in *Tribolium confusum* (exper.) and of adult worms in *Mesocricetus auratus* (exper.)

Development, Cestoda

- Sulgostowska, T., 1974, Acta Parasitol. Polon., v. 22 (12-21), 179-190
Hymenolepis diminuta, development of reproductive system

Development, Cestoda

- Swiderski, Z.; and Subilia, L., 1978, Electron Micr., v. 2, Biol., 444-445
Proteocephalus longicollis, embryonic envelope formation, electron microscopy

Development, Cestoda

- Timofeev, V. A.; and Kuperman, B. I., 1973, Parazitologiya, Leningrad, v. 7 (4), 339-348
Triaenophorus nodulosus, changes in ultrastructure of body surface during development from oncosphere into proceroid

Development, Cestoda

- Vogel, H., 1977, Tropenmed. u. Parasitol., v. 28 (4), 409-427
Echinococcus multilocularis, Central European strain, morphology and development of larval stages in *Microtus arvalis* (exper.), hepatic pathology

Development, Cestoda

- Vogel, H., 1978, Tropenmed. u. Parasitol., v. 29 (1), 1-11
Echinococcus multilocularis in *Microtus arvalis* (exper.), cyst growth and structure

Development, Cestoda

- Williams, D. D., 1978, Proc. Helminth. Soc. Washington, v. 45 (1), 142-143
Glaridacris vogei, larval development

Development, Cestoda

- Wisniewski, R. J., 1970, Acta Parasitol. Polon., v. 18 (27-41), 315-322
Hamatolepis teresoides, attempted exper. infection of 10 potential intermediate hosts, development to cysticercoid only in *Heterocypris incongruens*, inhibited development in *Cypridopsis vidua*, *Dolerocypris fasciata*, and *Notodromas monacha*

Development, Host

Alikhanov, Sh. G., 1973, *Parazitologiya*, Leningrad, v. 7 (5), 389-391

Thelohania opacita, detrimental effect on growth and development of *Aedes caspius caspius* from natural populations

Development, Host

Armstrong, E., 1978, *J. Invert. Path.*, v. 31 (3), 303-306

Nosema whitei-infected *Tribolium castaneum*, growth and mortality when fed vitamin B-complete vs. -deficient diets

Development, Host

Rau, M. E.; and Gordon, D. M., 1978, *Canad. J. Zool.*, v. 56 (8), 1765-1767

helminths overwintering in garter snakes, host hypobiosis not accompanied by significant changes in prevalence or intensity of parasite infections: Ille Perrot, Province Quebec, Canada

Development, Host

Wuelker, W., 1978, *Ztschr. Parasitenk.*, v. 57 (3), 255-267

mermithid infection of chironomid larvae, effects upon genital imaginal discs, specific aberrations concerning mitotic rate, cell death, organogenesis, cell pattern differentiation, and cell differentiation, review

Development, Miscellaneous phyla

Karna, D. W.; and Millemann, R. E., 1978, *J. Parasitol.*, v. 64 (3), 528-537

Margaritifera margaritifera, comparative susceptibility of 4 species of salmonid fish determined by examination of caged and uncaged (native) fish, parasite development and associated histopathology, glochidia development in mussels in relation to temperature: Siletz River, western Oregon

Development, Miscellaneous phyla

Luetzen, J., 1979, *Ophelia*, v. 18 (1), 1-51

Enteroxenos oestergreni in *Stichopus tremulus* and *E. parastichopoli* in *Parastichopus californicus*, detailed life history, frequency, infection sites, reproduction, metamorphosis of male larvae completed by implantation in female's central cavity, biology and anatomy of male *E. oestergreni*; biology compared with other species of Entoconchidae; effect of *E. oestergreni* on host

Development, Miscellaneous phyla

Raikova, E. V., 1978, *Tsitologiya*, v. 20 (4), 384-390

Polypodium hydriforme, nematocyst development in parasitic stolon, electron microscopy

Development, Nematoda

Ansari, M. Z.; and Singh, K. S., 1978, *J. Helminth.*, v. 52 (4), 283-286

Gaigeria pachyscelis, gamma-irradiation of infective larvae, no significant effect on in vitro survival, marked reduction in worm establishment in lambs with development of sterile and stunted worms, male larvae more sensitive to irradiation effects than female

Development, Nematoda

Arizono, N., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (4), 274-282

Strongyloides planiceps, differentiation into three developmental types (free-living males, free-living females, and infective larvae), effects of quantity of food (feces) and population density

Development, Nematoda

Arizono, N., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (4), 328-335

Strongyloides planiceps, differentiation into three developmental types (free-living males, free-living females, and infective larvae), effect of temperature

Development, Nematoda

Bailey, C. H.; Gordon, R.; and Mills, C., 1977, *Canad. J. Zool.*, v. 55 (2), 391-397

Neomesomermis flumenalis free-living stages from field-collected blackfly larvae, culture methods and development in laboratory

Development, Nematoda

Baker, M. R., 1978, *Canad. J. Zool.*, v. 56 (5), 1026-1031

Oswaldocruzia pipiens, development and transmission in amphibians, prevalence and intensity in different months and in different host size classes: near Guelph, Ontario

Development, Nematoda

Barus, V., 1970, *Folia Parasitol.*, v. 17 (1), 49-59

Subulura suctoria, development and morphology of larval stages in *Alphitobius diaperinus*, effect of temperatures on length of larval development

Development, Nematoda

Bashirullah, A. K. M.; and Ahmed, B., 1976, *Canad. J. Zool.*, v. 54 (12), 2055-2060

Camallanus adamsi in *Mesocyclops leuckarti* (exper.) and *Thermocyclops crassus* (exper.), development, 3 larval stages

Development, Nematoda

Batson, B. S., 1979, *Internat. J. Parasitol.*, v. 9 (6), 495-503

Gastromermis boophthorae, body wall, ultrastructural changes during life cycle, alkaline phosphatase activity, relationship to transcuticular uptake of nutrients

Development, Nematoda

Batson, B. S., 1979, *Internat. J. Parasitol.*, v. 9 (6), 505-514

Gastromermis boophthorae, trophosome, ultrastructure at selected points in life cycle, functional considerations

Development, Nematoda

Behnke, J. M.; and Parish, H. A., 1979, *Exper. Parasitol.*, v. 47 (1), 116-127

Nematospiroides dubius, arrested development of larvae in immune mice, resumption of development after cortisone treatment, arrested larvae were insensitive to activity of pyrantel embonate

Development, Nematoda

Berghen, P.; and Poelvoorde, J., 1978, *Vlaams Diergeneesk. Tijdschr.*, v. 47 (3), 218-230

Ascaridia galli-infected chickens, worm burdens with reference to arrested development and worm expulsion, effect of glucocorticoids

Development, Nematoda

- Bergstrom, R. C.; and Werner, B. A., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 234-236
Trichostrongylus colubriformis, Nematodirus spathiger, recovery and development of abnormal eggs from sheep feces

Development, Nematoda

- Bezubik, B.; Wedrychowicz, H.; and Sinski, E., 1977, Acta Parasitol. Polon., v. 25 (1-10), 79-90
Ostertagia circumcincta, sheep infected with larvae stored at low temperature, pathophysiological changes (body weight, blood picture, serum proteins), effectiveness of infection and percent of larvae inhibited in development

Development, Nematoda

- Birova, V.; Calvo, A.; and Ovies, D., 1979, Poeyana (190), 1-16
Tropisurus confusus, developmental cycle in *Porcellionides pruinosus* (exper.)

Development, Nematoda

- Bonner, T. P., 1979, J. Parasitol., v. 65 (1), 74-78
Nippostrongylus brasiliensis, 3rd-stage larvae, initiation of development in vitro evaluated on basis of morphology and RNA biosynthesis, effect of actinomycin-D, results support idea that elevation of temperature and certain nutritional components stimulate transcription of portion of genome coding for development into parasitic phase

Development, Nematoda

- Bonner, T. P., 1979, J. Parasitol., v. 65 (5), 745-750
Nippostrongylus brasiliensis, changes in structure of intestinal cells during development from free-living to parasitic stages

Development, Nematoda

- Borgsteede, F. H. M., 1978, Vet. Parasitol., v. 4 (4), 385-391
 nematodes in cattle, post-parturient rise of egg-output, epidemiological consequences

Development, Nematoda

- Burden, D. J.; and Hammet, N. C., 1979, Research Vet. Sc., v. 26 (1), 66-70
Trichuris suis ova in pig feces, development and survival on pasture plots: south of England

Development, Nematoda

- Callinan, A. P. L., 1978, Internat. J. Parasitol., v. 8 (3), 233-237
Ostertagia circumcincta, ecology of free-living stages, development and survival on herbage and soil: western Victoria, Australia

Development, Nematoda

- Callinan, A. P. L., 1978, Internat. J. Parasitol., v. 8 (6), 453-456
Trichostrongylus axei, ecology of free-living stages: development and survival of eggs and larvae, corresponding meteorological data: Pastoral Research Institute, Hamilton, Victoria, Australia

Development, Nematoda

- Callinan, A. P. L., 1979, Internat. J. Parasitol., v. 9 (2), 133-136
Trichostrongylus vitrinus, development and survival of free-living stages, some corresponding meteorological data: western Victoria, Australia

Development, Nematoda

- Chen, S. N.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 473-486
Brugia pahangi, in vitro cultivation in variety of culture systems, effect of temperature and pH on survival of infective stage larvae in vitro, growth and development of larvae in vitro and in vivo, effect of CO₂ on infective larvae in vitro, growth and development of early mammalian stages in vitro, electron microscope observations

Development, Nematoda

- Christensen, B. M., 1977, Mosquito News, v. 37 (3), 367-372
Dirofilaria immitis, development in *Aedes trivittatus* (exper.), transmission to susceptible dog, role of mosquito as natural vector discussed

Development, Nematoda

- Christensen, B. M.; and Hollander, A. L., 1978, Proc. Helminth. Soc. Washington, v. 45 (1), 115-119
Dirofilaria immitis in *Aedes trivittatus* (exper.), effect of different temperatures on developmental rate, intensity of infection, and infection rate

Development, Nematoda

- Clayton, H. M.; and Duncan, J. L., 1979, Internat. J. Parasitol., v. 9 (4), 285-292
Parascaris equorum in worm-free pony foals (exper.), migration and development

Development, Nematoda

- Collins, R. C., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 491-495
Onchocerca volvulus, Guatemalan strain, comparison of development in *Simulium ochraceum* and *S. metallicum*

Development, Nematoda

- Costa, A. J.; Nogueira, C. Z.; and Costa, J. O., 1978, Arq. Inst. Biol., S. Paulo, v. 45 (4), 291-298
 gastro-intestinal nematodes, development in calves born during dry season: Guaira, Sao Paulo State, Brazil

Development, Nematoda

- Cross, J. H.; Banzon, T.; and Singson, C., 1978, J. Parasitol., v. 64 (2), 208-213
Capillaria philippinensis, development in *Meriones unguiculatus* given larvae from experimentally infected *Hypselotris bipartita* or fed naturally infected *H. bipartita*, autoinfection is integral part of life cycle, parasite can also be maintained in laboratory by serial passage from gerbil to gerbil, erratic and short-lasting infections developed in *Rattus norvegicus* and *R. rattus* exposed to infection with larvae from experimentally infected fish: Philippines

Development, Nematoda

- Denke, A. M.; and Bain, O., 1978, Ann. Parasitol., v. 53 (6), 757-760
Onchocerca ochengi, development in *Simulium damnosum* s.l.

Development, Nematoda

- Devaney, E.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 387-392
Brugia pahangi, *B. malayi*, development of artificially exsheathed microfilariae in cultures of mosquito cells

Development, Nematoda

- Eberhard, M. L.; Lowrie, R. C., jr.; and Orihel, T. C., 1979, J. Parasitol., v. 65 (1), 89-95
Dipetalonema gracile, *D. caudispina*, development to infective stage in *Culicoides hollensis* (abdominal fat body) (exper.), pattern and duration of morphogenesis

Development, Nematoda

- Ellis, D. S.; et al., 1978, J. Helminth., v. 52 (1), 7-10
Dipetalonema viteae, intrauterine development of microfilariae, comparison with *Brugia pahangi*

Development, Nematoda

- El-Moukdad, A. R., 1978, Ztschr. Parasitenk., v. 55 (3), 241-247
Protostrongylus rufescens, *Muellerius capillaris*, *Cystocaulus ocreatus*, *Neostrongylus linearis*, laboratory animals not successful hosts for study of development; differentiation of third stage larvae of *Cystocaulus ocreatus* and *Neostrongylus linearis*

Development, Nematoda

- English, A. W., 1979, Austral. Vet. J., v. 55 (7), 299-305
equine strongyles, free-living stages in feces and on pasture, seasonal changes in rates of development and survival: Moggill, Brisbane, Queensland

Development, Nematoda

- Eysker, M., 1978, Vet. Parasitol., v. 4 (1), 29-33
Trichostrongylus spp. in sheep, inhibition of development as third stage larvae

Development, Nematoda

- Eysker, M., 1979, Research Vet. Sc., v. 26 (1), 115-116
Haemonchus contortus larvae, occurrence of crystalline inclusions in intestinal cells, may be associated with retardation of development

Development, Nematoda

- Finney, J. R., 1977, Nematologica, v. 23 (4), 479-480
Romanomermis culicivora, development in vitro culture

Development, Nematoda

- Fukutome, S., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (2), 49-54
Ancylostoma braziliense, *A. ceylanicum*, mice (exper.), migratory behavior and development

Development, Nematoda

- Genchi, C.; Mainati, G.; and Carrara, L., 1978, Clin. Vet., Milano, v. 101 (4), 175-184
gastrointestinal nematodes, race horses, climate variability, egg hatching, larval development to infective stage, presence of infective larvae on herbage in various seasons

Development, Nematoda

- Georgi, J. R.; et al., 1979, Parasitology, v. 79 (1), 39-47
Filaroides hirthei, migration and full development in *Canis familiaris*, development to 3rd stage in vitro

Development, Nematoda

- Goldenstein, N.; Bunke, V.; and Buerger, H. J., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (14), 286-289
Ostertagia, *Trichostrongylus*, *Haemonchus*, *Nematodirus*, sheep, development and survival of third-stage larvae on paddocks after summer and autumn contamination dependent upon ground temperature; overwintering of all four genera until start of next grazing season

Development, Nematoda

- Gupta, R. P.; and Gibbs, H. C., 1976, Haryana Agric. Univ. J. Research, v. 6 (3-4), 205-207
Dictyocaulus viviparus, description of inhibited fourth and fifth stage larvae recovered from calves (lungs) (nat. or exper.) in autumn after four weeks in parasite-free conditions

Development, Nematoda

- Guzenok, M. A., 1975, Vet. Nauka--Proizvod., Trudy, Minsk, v. 13, 109-113
Strongyloides papillosus, development of free-living stages

Development, Nematoda

- Hamada, G. S.; and Wertheim, G., 1978, Internat. J. Parasitol., v. 8 (5), 405-414
Mastophorus muris, ultrastructure of somatic muscle development

Development, Nematoda

- Haque, A.; et al., 1978, Parasitology, v. 76 (1), 77-84
Dipetalonema viteae, hamsters, female adult worms suppress but male adults enhance microfilaraemia of infection initiated with infective larvae, male worms release factor(s) which enhance microfilaraemia, microfilariae production by implanted female worms is inhibited by developing infective larvae

Development, Nematoda

- Ho, B. C.; et al., 1977, J. Med. Entom., v. 13 (4-5), 531-535
Breinlia booliati, relative susceptibility of 8 insectary-reared mosquito species, larval growth rate and development, role of these potential vectors in natural transmission

Development, Nematoda

- Jones, G. M., 1979, J. Morphol., v. 160 (3), 299-321
Syngamus trachea, amphids and amphidial glands, ultrastructure in newly moulted, immature, and mature adults, development of secretory activity

Development, Nematoda

- Ko, R. C., 1979, *J. Helminth*, v. 53 (2), 121-126
Angiostrongylus cantonensis, intracranial transplantation into rats from mice and into rabbits from rats, subsequent growth and development

Development, Nematoda

- Komma, M. D., 1972, *Rev. Patol. Trop.*, v. 1 (1), 45-50
Necator americanus, development of eggs into infective filariform larvae, culture on filter paper

Development, Nematoda

- Lehane, M. J., 1978, *Internat. J. Parasitol.*, v. 8 (3), 207-218
Brugia pahangi, ultrastructure of 1st stage larvae in *Aedes togoi* is described up to onset of 1st cuticular molt

Development, Nematoda

- Le Jambre, L. F.; Southcott, W. H.; and Dash, K. M., 1978, *Internat. J. Parasitol.*, v. 8 (6), 443-447
Ostertagia circumcincta, development of simultaneous resistance to thiabendazole, morantel tartrate, and levamisole, multiple selection associated with increase in *O. trifurcata* in population and increase in larval inhibition

Development, Nematoda

- Levy, R.; and Miller, T. W., jr, 1977, *Mosquito News*, v. 37 (3), 410-414
Romanomermis culicivora as biological control agent of *Culex quinquefasciatus*, polluted water had little or no adverse effect on viability, infectivity, or development of nematode: Sanibel Island, Lee County, Florida

Development, Nematoda

- Lincoln, R. C.; and Anderson, R. C., 1975, *Canad. J. Zool.*, v. 53 (4), 385-390
Physaloptera maxillaris, development to infective stage in *Gryllus pennsylvanicus* (ileum) (exper.), description of larval stages

Development, Nematoda

- Lowrie, R. C., jr.; Eberhard, M. L.; and Orihel, T. C., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1003-1007
Tetrapetalonema marmosetae, development to infective stage in *Culicoides hollensis* and *C. furens* (thoracic flight muscles) (both exper.), results suggest species of *Culicoides* are probable natural vectors and also open way for laboratory maintenance of this parasite

Development, Nematoda

- Lyons, E. T.; and Keyes, M. C., 1978, *J. Parasitol.*, v. 64 (3), 454-458
Uncinaria lucasi in *Callorhinus ursinus*, differential infectivity in pups of parasitic 3rd stage larvae from belly tissues of bulls and bachelors vs. those from pregnant cows, also appears to be relationship between size of larvae and their maturation capability, pregnancy hormones may provide explanation

Development, Nematoda

- McCraw, B. M.; and Slocombe, J. O. D., 1978, *Canad. J. Comp. Med.*, v. 42 (3), 340-356
Strongylus edentatus, ponies (exper.), development, lesions from 10 to 72 weeks postinfection

Development, Nematoda

- Malczewski, A., 1970, *Acta Parasitol. Polon.*, v. 18 (27-41), 417-434
Ostertagia ostertagi, *Trichostrongylus axei*, *Haemonchus contortus*, seasonal dynamics in calves, discussion in relation to inhibition of larval development and spring rise phenomenon: Poland

Development, Nematoda

- Michel, J. F.; Lancaster, M. B.; and Hong, C., 1979, *J. Comp. Path.*, v. 88 (1), 131-136
Ostertagia ostertagi, *Cooperia oncophora*, arrested development, seasonal effects on conditioning and deconditioning of infective larvae were minimal

Development, Nematoda

- Michel, J. F.; Lancaster, M. B.; and Hong, C., 1979, *Parasitology*, v. 79 (1), 157-168
Ostertagia ostertagi, cattle, effect of age, previous experience of infection, pregnancy, and lactation on resistance to establishment of worms, rate at which populations are turned over, and arrested development

Development, Nematoda

- Mirzayans, A., 1971, *Folia Parasitol.*, v. 18 (1), 93-95
Trichostrongylus axei, development and survival of free-living stages on grass plots during autumn: south-east England

Development, Nematoda

- Moncol, D. J.; and Triantaphyllou, A. C., 1978, *J. Parasitol.*, v. 64 (2), 220-225
Strongyloides ransomi, factors influencing sex expression and developmental pattern of progeny of parasitic females: appearance of males attributed to effect of host immunity, physiological ageing of parasitic females, or both, sex determined prior to hatching; cultural conditions (pH, culture substrate) influenced direction of development of female rhabditoid larvae

Development, Nematoda

- Moninick, W. M.; and Davey, K. G., 1974, *Canad. J. Zool.*, v. 52 (9), 1199-1200
Leidynema appendiculata, precocious development of eggs in *Periplaneta americana*

Development, Nematoda

- Mutafova, T., 1976, *Khelmintologiya, Sofiya*, v. 1, 69-77
Heterakis gallinarum, chickens, development and distribution in caecum

Development, Nematoda

- Nazarova, N. S., 1960, *Uchen. Zapiski Gor'kovsk. Gosudarstv. Pedagog. Inst. im. M. Gor'kii*, v. 27, 121-132
Spirocerca lupi, life cycle, development in intermediate and final hosts, description of egg, 1st, 2nd, and 3rd stage larvae

Development, Nematoda

- Nwosu, A. B. C., 1978, Ztschr. Parasitenk., v. 56 (3), 243-249
Ancylostoma tubaeforme, free-living phase, roles of temperature, pH, salinity, and lipid content in development

Development, Nematoda

- Oakley, G. A., 1979, Vet. Rec., v. 104 (20), 460
Dictyocaulus viviparus, calves, delayed development of infection, case history, larvae may not only survive winter conditions, but persist in sufficient numbers to cause disease

Development, Nematoda

- Ogunsusi, R. A., 1979, Research Vet. Sc., v. 26 (2), 189-192
Haemonchus contortus, *Trichostrongylus* spp., sheep, termination of arrested development, time of year: northern Nigeria

Development, Nematoda

- Ogunsusi, R. A., 1979, Research Vet. Sc., v. 27 (1), 131-132
Haemonchus contortus, sheep, oxfendazole, haloxon, efficacy against arrested larvae, controlled trial, dry season: northern Nigeria

Development, Nematoda

- Ogunsusi, R. A.; and Eysker, M., 1979, Research Vet. Sc., v. 26 (1), 108-110
Haemonchus contortus, *Trichostrongylus* spp., ewes and lambs, patterns of inhibited development during rainy season: Zaria, northern Nigeria

Development, Nematoda

- Olsson, G., 1977, Svensk Vet.-Tidn., v. 29 (9), 361-365
Ostertagia sp., cattle, inhibited fourth stage larvae found in abomasa from September-October until May: Uppsala, Sweden

Development, Nematoda

- Omar, M. S.; Denke, A. M.; and Raybould, J. N., 1979, Tropenmed. u. Parasitol., v. 30 (2), 157-162
Onchocerca ochengi, development to infective stage in *Simulium damnosum* complex (probably *S. sanctipauli*) (nat. and exper.); histochemical staining of larval stage acid phosphatase distribution pattern in flies; comparisons of development and staining with that of *O. volvulus*: southwest Togo

Development, Nematoda

- Omar, M. S.; and Schulz-Key, H., 1978, Tropenmed. u. Parasitol., v. 29 (3), 359-363
Onchocerca volvulus, development of larval stages in *Simulium damnosum* determined by acid phosphatase activity staining patterns

Development, Nematoda

- Omar, M. S.; and Zielke, E., 1978, Tropenmed. u. Parasitol., v. 29 (3), 364-370
Wuchereria bancrofti larvae, abortive development in refractory strain of *Culex pipiens fatigans* (exper.) from Liberia, West Africa

Development, Nematoda

- Onushko, N. V., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 114-119
Syngamus trachea female, histology of reproductive organs in various stages of postembryonal development

Development, Nematoda

- Petit, G., 1978, Ann. Parasitol., v. 53 (6), 649-668
Dipetalonema dessetae in *Aedes aegypti*, quantitative observations of various stages of development (ingestion of microfilariae, crossing of stomach wall, development in adipose tissue, maturation and migration of infective stages)

Development, Nematoda

- Pott, J. M.; Jones, R. M.; and Cornwell, R. L., 1978, Internat. J. Parasitol., v. 8 (5), 331-339
 parasitic gastroenteritis and bronchitis in untreated grazing calves, epidemiology (pasture larval counts, fecal egg and larval counts, clinical assessment, weight gains, worm counts in tracer calves), evidence that resistance to *Cooperia* and *Dictyocaulus* was acquired more readily than to *Ostertagia*, inhibition of development of *Ostertagia* and *Cooperia* became evident at end of trial period

Development, Nematoda

- Prichard, R. K.; et al., 1978, Vet. Rec., v. 102 (17), 382
Ostertagia ostertagi arrested 4th stage larvae, incorporation of C^{14} -labeled thiabendazole no lower than that of adult worms, increased tolerance may be due to lower energy demands of arrested larvae, higher efficacy can be achieved by persistently high anthelmintic concentrations in host

Development, Nematoda

- Ramaswamy, K.; and Sundaram, R. K., 1979, Indian Vet. J., v. 56 (5), 363-366
Tetrameres mohtedai, successful completion of life cycle using *Porcellio laevis* and White Leghorn chicks (both exper.), larval development and measurements, simultaneous infection of both hosts with *Acuaria spiralis*

Development, Nematoda

- Rao, K. H.; Shyamasundari, K.; and Kumari, B. V., 1977, Current Sc., Bangalore, v. 46 (16), 565-566 [Letter]
Tanqua anomala, embryology, suitable model to demonstrate characteristic cleavage pattern

Development, Nematoda

- Rojo-Vazquez, F. A., 1976, Rev. Iber. Parasitol., v. 36 (3-4), 249-255
Trichostrongylus axei, *T. colubriformis*, effect of temperature on development of pre-parasitic stages, controlled conditions; behavior of both species similar, but developing stages of *T. axei* had greater ability to withstand adverse conditions

Development, Nematoda

- Ruff, M. D.; Hansen, M. F.; and Ostlind, D. A., 1965, Tr. Kansas Acad. Sc., v. 68 (4), 498-507
Ascaridia galli, effect of X-irradiation on development, varied dose and time of radiation

Development, Nematoda

- Rupasinghe, D.; and Ogbourne, C. P., 1978, Ztschr. Parasitenk., v. 55 (3), 249-253
strongylid nematodes of horse, free-living stages, effect of temperature on hatching time and development rates

Development, Nematoda

- Santiago, M. A. M.; and da Costa, U. C., 1977, Rev. Centro Cien. Rurais, v. 7 (3), 293-295
Haemonchus contortus, ovine, fourth stage larvae, inhibited development, morphological aspects, cylindrical crystals in intestinal cells

Development, Nematoda

- Sathianesan, V.; and Peter, C. T., 1973, Kerala J. Vet. Sc., v. 4 (2), 124-126
Bunostomum trigonocephalum, hatching and development of eggs in vitro, route of infection and prepatent period in goats (exper.)

Development, Nematoda

- Sauerlaender, R., 1979, Ztschr. Parasitenk., v. 59 (1), 53-66
Muellerius capillaris in Cepaea nemoralis (exper.), exposure period, developmental period from 1st to 3rd stage larvae, individual exposure vs. mass exposure, super-infections, infectivity following storage below freezing-point, localization of larvae, host cellular reaction

Development, Nematoda

- Schillhorn Van Veen, T. W., 1978, Vet. Rec., v. 102 (16), 364-365
Haemonchus contortus, lambs (abomasum, faeces), casualties of young lambs following prolonged rainy season, further casualties at end of following dry season associated with inhibited H. contortus larvae suggest chronic haemonchosis syndrome (lambs had been previously treated with thiabendazole and rafoxanide); high pasture infection: Shika, near Zaria

Development, Nematoda

- Schillhorn van Veen, T. W.; and Ogunsusi, R. A. A., 1978, Vet. Parasitol., v. 4 (4), 377-383
trichostrongylid fecal egg output of lambing and non-lambing ewes in 2 sheep flocks in dry season of 1975/1976 and 1976/1977, effect of lactation vs. that of seasonal development of hypobiotic larvae, difference between the 2 dry seasons was associated with different rainfall patterns during 1975 and 1976: northern Nigeria

Development, Nematoda

- Shmytova, G. Ia., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 157-166
Trichocephalus muris, embryonic development in vitro and post-embryonic development in mice described, morphological criteria for recognition of embryo and larval stages of Trichocephalus

Development, Nematoda

- Siddiqi, M. N.; and Meerovitch, E., 1977, Pakistan J. Zool., v. 9 (1), 51-57
Trichinella spiralis, 3 newly isolated strains compared with classical strain during intestinal phase of infection in rats (moulting pattern, % recovery of adult worms, their size and sex ratio), significantly smaller size of worms in 3 new strains, inhibition of development expressed by host resistance as one of several possible causes

Development, Nematoda

- Sinski, E., 1975, Acta Parasitol. Polon., v. 23 (26-40), 425-439
Ostertagia circumcincta, sheep, parasitological, clinical, and hematological changes after multiple infections especially in relation to inhibition of larval development

Development, Nematoda

- Slepnev, N. K., 1971, Nauch. Trudy, Nauchno-Issled. Vet. Inst., v. 9, 106-108
Ascarops strongylina, development from egg to third stage larva in intermediate host (Geotrupes stercorarius) in 28-30 days at temperature of 17-21°

Development, Nematoda

- Slobodianiuk, O. V., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 155-159
Parasitaphelenchus papillatus, development of various stages in body cavity of Blastophagus piniperda or in its tunnels and frass

Development, Nematoda

- Smith, H. J., 1978, Canad. J. Comp. Med., v. 42 (3), 332-339
Cooperia oncophora, calves (exper.), larvae conditioned at certain temperatures prior to infection had inhibited development, photoperiod or presence of light prior to infection did not affect development

Development, Nematoda

- Smith, H. J., 1978, Vet. Parasitol., v. 4 (3), 265-273
Trichonema spp., re-infection of mature (9 and 10 year old) parasite-free sensitized ponies, findings indicate development of strong resistance which may be partly associated with host age and demonstrate the pathogenesis of inhibited larvae which may be retained by resistant ponies for prolonged periods of time

Development, Nematoda

- Smith, H. J., 1979, Canad. J. Comp. Med., v. 43 (4), 434-439
gastrointestinal helminths, resumption of development of inhibited larvae in calves stabled overwinter

Development, Nematoda

- Soboleva, T. N., 1972, Parazitologiya, Leningrad, v. 6 (6), 562-566
Hastilesia ochotonae, life cycle, description of developmental stages

Development, Nematoda

Soroczan, W., 1977, Acta Parasitol. Polon., v. 24 (20-27), 259-267

Strongyloides stercoralis, life cycle, larval survival and development under different conditions of temperature, humidity, and pH in soil, water, feces, hogwash, and cow dung, potential for transmission under climatic conditions of Poland

Development, Nematoda

Sprent, J. F. A., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 477-485

Ophidascaris spp., *Amplichaecum robertsi*, review of speciation, development, and geographic distribution with particular reference to migratory behavior and growth in tissues of experimentally infected mice and pythons

Development, Nematoda

Stewart, G. L.; Soifer, F. K.; and Stewart, J. B., 1979, J. Invert. Path., v. 33 (1), 75-80

Diofilaria immitis, effects of different carbohydrate diets on survival, fecundity, and egg viability in infected *Aedes aegypti* and on development of 3rd stage larvae of nematode

Development, Nematoda

Stradowski, M., 1974, Acta Parasitol. Polon., v. 22 (35-44), 415-422

Amidostomum anseris, eggs and larvae, development, resistance to various temperatures and desiccation under laboratory conditions

Development, Nematoda

Stradowski, M., 1977, Acta Parasitol. Polon., v. 24 (20-27), 249-258

Amidostomum anseris, duration of prepatent, patent, and postpatent periods of infection in domestic geese (exper.), some variation in relation to host age but not to season nor to primary vs. secondary infection

Development, Nematoda

Sullivan, J. T.; Ratanapitaksa, S.; and Palmieri, J. R., 1978, J. Invert. Path., v. 32 (3), 359-367

Angiostrongylus malaysiensis in *Lymnaea rubiginosa*, *Physastra sumatrana*, and *Melanooides tuberculata* (all exper.), development, histopathology, encapsulation, comparative host reaction

Development, Nematoda

Svarc, R., 1978, Biol. Prace, v. 24 (1), 133 pp. *Cystocaulus ocreatus*, sheep (lungs), age of host, morphology, histopathology in intermediate and definitive hosts, development, monograph: Central Slovakia

Development, Nematoda

Theron, A., 1975, Vie et Milieu, s. C, Biol. Terr., v. 25 (1), 49-54

Skrjabinylus nasicola, larval development in *Helicella arenosa* and *Euparypha pisana* (both exper.)

Development, Nematoda

Thomas, R. J.; and Waller, P. J., 1979, Research Vet. Sc., v. 26 (2), 209-212

abomasal nematodes, lambs, epidemiology during winter and spring: infective pasture larval availability, parasite population changes and inhibition patterns: Northumberland

Development, Nematoda

Uhazi, L. S., 1977, Canad. J. Zool., v. 55 (2), 265-273

Philometroides huronensis, morphology, growth, and development of larval stages in copepods, transmission to *Catostomus commersoni* held at controlled temperatures and photoperiods

Development, Nematoda

Waller, P. J.; and Thomas, R. J., 1978, Internat. J. Parasitol., v. 8 (4), 275-283

Ostertagia spp., epidemiology in natural parasite populations in sheep raised under intensive conditions, climatic conditions, egg counts and pasture larval availability, seasonal worm burdens, inhibition of larval development: north-east England

Development, Nematoda

Waller, P. J.; and Thomas, R. J., 1978, Internat. J. Parasitol., v. 8 (5), 365-370

Ostertagia circumcincta in tracer lambs (susceptible) vs. continuously grazed lambs (potentially resistant) over course of seasonal exposure to natural infection, worm burdens, % larval inhibition, parasite sex ratio, vulval flap pattern, worm size, results indicate importance of host-induced effects on morphological development

Development, Nematoda

Wharton, D. A., 1979, Exper. Parasitol., v. 48 (3), 398-406

Ascaris lumbricoides, eggs, effect of humidity on embryonic development, rate of water loss during desiccation, effect of temperature on water loss

Development, Nematoda

Wharton, D. A., 1979, Parasitology, v. 78 (2), 131-143

Aspiculuris tetraptera, gross morphology of reproductive system, oogenesis, fertilization, egg-shell formation, cap cell and rachis, cytoplasmic inclusions of oocyte, formation of uterine layers

Development, Nematoda

Wharton, D. A., 1979, Parasitology, v. 79 (1), pp. 1-12

Hammerschmidtella diesingi, structure and histochemistry of egg-shell, gross morphology of reproductive system, cytoplasmic inclusions of oocyte, shell formation

Development, Nematoda

Wharton, D. A., 1979, Parasitology, v. 79 (1), 13-28

Syphacia obvelata, structure and histochemistry of egg-shell, gross morphology of reproductive system, shell formation

Development, Nematoda

Yamashita, T.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (3), 114-121

Angiostrongylus cantonensis, rats, mice, guinea pigs (all exper.), development

Development, Nematoda

Yoshimura, K.; and Kawashima, Y., 1978, Japan. J. Vet. Sc., v. 40 (6), 745-748

Angiostrongylus cantonensis, development in *Meriones unguiculatus* and *Praomys natalensis* compared for determining suitable laboratory model

Development, Nematoda

- Zen'kov, A. V.; and Gudimenko, I. I., 1974, Vet. Nauka--Proizvod., Trudy, Minsk, v. 12, 125-127
 ascarids, [Trichuris], [Oesophagostomum], swine, rate of development of eggs and larvae in the environment in relation to seasonal climatic conditions: Minsk oblast, Belorussia

Development, Nematoda

- Zen'kov, A. V.; and Gudimenko, I. I., 1975, Vet. Nauka--Proizvod., Trudy, Minsk, v. 13, 136-137
 [ascarids], [Trichocephalus], [Oesophagostomum], development of eggs under climatic conditions of Minsk oblast

Development, Nematoda

- Zielke, E., 1979, Tropenmed. u. Parasitol., v. 30 (2), 163-169
 Brugia malayi, B. pahangi, percentage of larvae carried by vector (Aedes aegypti) which reach maturity in Meriones unguiculatus (exper.); distribution in final host

Development, Protozoa

- Ahmed, F. E.; and Mohammed, A. H. H., 1978, J. Protozool., v. 25 (2), 174-177
 Haemoproteus columbae in pigeons, growth and development of gametocytes, effect on host cell, multiple infection of erythrocytes, sex ratio

Development, Protozoa

- de Almeida, D. F.; and de Souza, W., 1978, J. Parasitol., v. 64 (1), 17-22
 Herpetomonas samuelpessoai in basic medium or in complex media obtained through addition of various concentrations of KCl, NaCl, or glycerol, growth curves, changes in cell volume as function of osmolarity of medium, corresponding morphological changes

Development, Protozoa

- Andreadis, T. G.; and Hall, D. W., 1979, J. Protozool., v. 26 (3), 444-452
 Amblyospora sp., development, ultrastructure, and mode of transmission in Culex salinarius

Development, Protozoa

- Augustine, P. C.; and Doran, D. J., 1978, J. Protozool., v. 25 (1), 82-86
 Eimeria meleagridis, development from sporozoites and merozoites in turkey kidney cell cultures

Development, Protozoa

- Bafort, J. M., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (1), 5-203
 Plasmodium v. vinckei; P. b. berghei, biology of rodent malaria, monograph covering life cycle in vertebrate and invertebrate hosts, light and electron microscopic study of morphology

Development, Protozoa

- Baker, J. R.; and Liston, A. J., 1978, J. Gen. Microbiol., v. 104 (1), 79-89
 Trypanosoma dionisii, effect of various agents (including temperature, complement, trypsin, cytochalasin B and immune plasma) on attachment and entry to mouse peritoneal macrophages in vitro, and subsequent morphogenesis; attachment occurred to non-specific receptors, entry by phagocytosis

Development, Protozoa

- Bower, S. M.; and Woo, P. T. K., 1977, Canad. J. Zool., v. 55 (7), 1093-1099
 Cryptobia catostomi in Catostomus commersoni (blood), division and morphogenesis, explanation for variation in parasite size

Development, Protozoa

- Cerna, Z.; and Senaud, J., 1977, Compt. Rend. Acad. Sc., Paris, v. 285, s. D, Sc. Nat., (4), 347-349
 Sarcocystis dispersa in mice, asexual multiplication directly in cytoplasm of hepatic cells without formation of parasitophorous vacuole, new process of endogenesis (multiple synchronous endopolygenesis)

Development, Protozoa

- Cuba, C. A. C., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (1), 10-18
 Trypanosoma rangeli in Rhodnius ecuadoriensis, confirmation of natural infection by dissection and by transmission to white mice, parasite developmental stages

Development, Protozoa

- Cuba, C. A. C., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (1), 19-27
 Trypanosoma rangeli, Rhodnius ecuadoriensis experimentally infected by feeding on guinea pigs, capacity to transmit infection to mice by bite, but not by inoculation of forms eliminated in feces, parasite developmental periods

Development, Protozoa

- Cuba, C. A. C., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (5), 283-297
 Trypanosoma rangeli, Peruvian strain, growth and development in Rhodnius ecuadoriensis (hemocoele, glandulas salivares) (exper.)

Development, Protozoa

- da Cunha, A. B.; et al., 1978, Rev. Brasil. Biol., v. 38 (4), 875-884
 Schneideria schneiderae, effects of several metabolic inhibitors on penetration of sporozoites into host cells and intracellular development of trophozoites

Development, Protozoa

- da Cunha, A. B.; et al., 1978, Rev. Brasil. Biol., v. 38 (4), 885-893
 Schneideria schneiderae, development in abnormal host Plastosciera sp. (exper.) compared to that in normal host Trichosia pubescens (exper.)

Development, Protozoa

- da Cunha, A. B.; and Jurand, A., 1978, Arch. Protistenk., v. 120 (3), 233-254
 Schneideria schneiderae in Trichosia pubescens (exper.), entry into and development in cells of intestinal caecum, host cell-symbiont interrelations, metabolic exchanges, symbiotic bacteria in cytoplasm of Schneideria, ultrastructural study

Development, Protozoa

- Current, W. L., 1979, J. Protozool., v. 26 (2), 209-217
 Henneguya adiposa, ultrastructure of plasmodium wall and sporogenesis

Development, Protozoa

Current, W. L.; Janovy, J., jr.; and Knight, S. A., 1979, *J. Protozool.*, v. 26 (4), 574-583
Myxosoma funduli, plasmodium wall, sporogenesis, ultrastructure

Development, Protozoa

Dalglish, R. J.; and Stewart, N. P., 1978, *Austral. Vet. J.*, v. 54 (9), 453-454 [Letter]
Babesia bigemina, *B. bovis*, development, in incubated *Boophilus microplus* eggs, and *B. bigemina* in unfed larval ticks held at 37°C, infectivity for cattle of parasites in unfed *Boophilus microplus* larvae after incubation at various temperatures

Development, Protozoa

Dalglish, R. J.; and Stewart, N. P., 1979, *Internat. J. Parasitol.*, v. 9 (2), 115-120
Babesia bovis, morphology, development, and infectivity for cattle of parasites in unfed *Boophilus microplus* larvae after incubation at various temperatures

Development, Protozoa

Dass, C. M. S.; and Singotam, L., 1978, *Electron Microsc.*, v. 2, Biol., 446-447
Grebnekiella pixellae, ultrastructure of early developmental stages

Development, Protozoa

Desportes, I.; and Ginsburger-Vogel, T., 1977, *Compt. Rend. Acad. Sc., Paris*, v. 285, s. D, Sc. Nat., (11), 1111-1114
Marteilia, development, taxonomic implications, affinities with Myxosporida, Actinomyxida, and Paramyxida, "C'est dans ce sous-embanchement [Cnidospora] qui nous semble devoir etre maintenu et completement redefini que s'insereent en toute logique les *Marteiliidae*. . . nous proposons pour l'instant de creer le nouvel et quatrieme ordre des *Marteiliidae*."

Development, Protozoa

Desser, S. S., 1978, *J. Parasitol.*, v. 64 (5), 933-935
eimeriid coccidia, evidence of extraintestinal development in pigs and chamois (liver)

Development, Protozoa

Desser, S. S.; and Allison, F. B., 1979, *J. Parasitol.*, v. 65 (5), 737-744
Leucocytozoon tawaki in *Austrosimilium unguilatum*, ultrastructure of sporogonic development, nature and significance of crystalloid inclusions

Development, Protozoa

Desser, S. S.; and Paterson, W. B., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 314-326
Myxobolus sp. in *Notropis cornutus*, spores and various stages of sporogenesis, ultrastructural and cytochemical observations

Development, Protozoa

Dubey, J. P., 1979, *Am. J. Vet. Research*, v. 40 (11), 1634-1637
Toxoplasma gondii, direct development of enteroepithelial stages in intestines of cats (exper.), hypothesis of extraintestinal pregametogonic stages not confirmed

Development, Protozoa

Dubremetz, J. F.; and Lisner, Y. Y., 1979, *J. Protozool.*, v. 26 (3), 367-376
Eimeria bovis, schizogony and merogony in cell culture, ultrastructural study

Development, Protozoa

Dykova, I.; and Lom, J., 1978, *J. Fish Biol.*, v. 12 (3), 197-202
Henneguya spp., developmental stages in hosts, histopathological changes in fish gill, inflammatory reaction may be a temperature dependent immune response: South Bohemia

Development, Protozoa

Evans, D. A.; Ellis, D. S.; and Stamford, S., 1979, *J. Protozool.*, v. 26 (4), 557-563
Trypanosoma congolense, development in *Glossina morsitans morsitans*, ultrastructure

Development, Protozoa

Ferguson, D. J. P.; et al., 1978, *Acta Path. et Microbiol. Scand.*, v. 86B (1), 1-11
Eimeria brunetti, sporulation of oocysts, development of zygote and formation of sporoblasts, light and electron microscopy

Development, Protozoa

Ferguson, D. J. P.; et al., 1978, *Acta Path. et Microbiol. Scand.*, v. 86B (1), 13-24
Eimeria brunetti, sporulation of oocysts, development into sporocyst, formation of sporozoite, light and electron microscopy

Development, Protozoa

Ferguson, D. J. P.; et al., 1979, *Acta Path. et Microbiol. Scand.*, v. 87B (3), 171-181
Toxoplasma gondii, oocyst sporulation, zygote development, sporoblast formation, ultrastructure, light and electron microscopy

Development, Protozoa

Ferguson, D. J. P.; et al., 1979, *Acta Path. et Microbiol. Scand.*, v. 87B (3), 183-190
Toxoplasma gondii, oocyst sporulation, sporocyst formation, structure of sporocyst wall, ultrastructure

Development, Protozoa

Fiedoruk-Poplawska, T., 1972, *Roczniki Akad. Med. im. Juliana Marchlewskiego Białymstoku*, v. 17, 187-191
Trichomonas vaginalis, relationship between rate of parasite development in culture and content of DNA and RNA in parasite cells

Development, Protozoa

Fisher, J. W.; Kelley, G. L.; and Youssef, N. N., 1979, *Ztschr. Parasitenk.*, v. 59 (3), 203-210
Eimeria dispersa, development in bovine kidney cell cultures

Development, Protozoa

Frank, C., 1977, *Ztschr. Parasitenk.*, v. 53 (3), 307-310
Hepatozoon sylvatici transmitted from naturally to experimentally infected *Apodemus sylvaticus* and *A. flavicollis* by *Laelaps agilis*; *L. agilis* transmission of *H. sylvatici* to non-specific host, *Clethrionomys glareolus*; gonads of female mites possibly have stimulating effect on protozoan development; schizonts from bone marrow and liver of *Apodemus flavicollis* differ in morphology

Development, Protozoa

- Gillet, J.; and Herman, F., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (6), 655-677
Plasmodium berghei berghei, erythrocytic forms inoculated into mouse embryos, development, reproduction, mice at birth had either no evidence of infection or had overwhelming parasitemia with extended period of parasite development

Development, Protozoa

- Gillet, J.; and Herman, F., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (6), 679-681
Trypanosoma equiperdum, development in mouse embryos, no resistance by host animals, fatal infections in all

Development, Protozoa

- Gillet, J.; and Herman, F., 1973, Ann. Soc. Belge Med. Trop., v. 53 (1), 1-6
Babesia rodhaini, inoculation into mouse embryos on 15th day of gestation, delayed development

Development, Protozoa

- Goebel, E.; Katz, M.; and Erber, M., 1978, Zentralbl. Bakteriell., 1. Abt. Orig., Reihe A, v. 241 (3), 368-383
Sarcocystis suicanis, pigs (exper.), ultrastructure and development of sarcocysts in muscle cells, light and electron microscopy

Development, Protozoa

- Hadani, A.; Kaufman, W.; and Barnett, S. F., 1978, J. Parasitol., v. 64 (3), 501-503
Nuttallia danii, development within *Hyalomma anatolicum excavatum* salivary glands held in organ culture in vitro

Development, Protozoa

- Heydorn, A. O.; and Mehlhorn, H., 1978, Zentralbl. Bakteriell., 1. Abt. Orig., Reihe A, v. 240 (1), 123-134
Sarcocystis suihominis, pigs (exper.), fine structure of schizonts and formation of merozoites within various host organs

Development, Protozoa

- Hilali, M.; and Scholtyseck, E., 1979, Acta Vet. Scand., v. 20 (3), 321-328
globidian cyst-like bodies containing multinucleate schizonts or merozoites, sheep (abomasum), ultrastructure, merozoite formation, host cell confirmed as being alive and intact: Bonn

Development, Protozoa

- Ismailov, S. G., 1974, Parazitologiya, Leningrad, v. 8 (3), 261-265
Eimeria erythrourica in *Meriones erythrourus* (exper.), endogenous stages of life cycle

Development, Protozoa

- Janardanan, K. P.; and Ramachandran, P., 1979, Zool. Anz., Jena, v. 203 (5-6), 392-400
Stenoductus carlogoni sp. n., systematics, biology and statistical analysis of morphogenesis

Development, Protozoa

- Kelley, G. L.; and Youssef, N. N., 1977, Ztschr. Parasitenk., v. 53 (1), 23-29
Eimeria vermiformis, development from sporozoite to mature first-generation schizonts in cell cultures

Development, Protozoa

- Kessler, R. H.; et al., 1979, Am. J. Vet. Research, v. 40 (12), 1767-1773
Anaplasma marginale, in vitro cultivation in bovine erythrocytes, growth pattern and morphology

Development, Protozoa

- Kessler, R. H.; and Ristic, M., 1979, Am. J. Vet. Research, v. 40 (12), 1774-1776
Anaplasma marginale, in vitro cultivation in normal ovine and bovine erythrocytes, transmission from infected ovine to normal bovine cells demonstrated, growth patterns

Development, Protozoa

- Khan, R. A., 1978, Ann. Parasitol., v. 53 (5), 461-466
Trypanosoma cotti, redescription of parasite in *Enophrys bubalis* and its development in its leech vector *Calliobdella punctata* based on Brumpt's original material

Development, Protozoa

- Kimura, E.; Lay, W. H.; and Fernandes, J. F., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (3), 133-138
Trypanosoma cruzi, in vitro metacyclic trypomastigotes purified from culture develop into amastigotes, multiply and transform into epimastigotes, increasing incubation temperature accelerates appearance of amastigotes but hinders further development

Development, Protozoa

- Kirmse, P., 1979, Ztschr. Parasitenk., v. 59 (2), 141-150
Haemogregarina simondi, redescription of life cycle

Development, Protozoa

- Kongtong, P.; and Inoki, S., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (5), 284-293
Trypanosoma cruzi, trypomastigotes, epimastigotes, method of entry into fibroblast cells and intracellular development, scanning electron microscopy

Development, Protozoa

- Krinsky, W. L.; and Hayes, S. F., 1978, J. Protozool., v. 25 (2), 177-186
Nosema parkeri, fine structure of sporogonic stages from *Ornithodoros parkeri* (exper.)

Development, Protozoa

- Lanar, D. E., 1979, J. Protozool., v. 26 (3), 457-462
Trypanosoma cruzi, cultivation with *Triatoma infestans* embryo cell line, growth and differentiation

Development, Protozoa

- Landau, I.; et al., 1979, Ann. Parasitol., v. 54 (2), 145-161
Plasmodium yoelii, gametocytes, morphology, development, infectivity

Development, Protozoa

- Langreth, S. G.; et al., 1978, J. Protozool., v. 25 (4), 443-452
Plasmodium falciparum, erythrocytic cycle in vitro, ultrastructure, comparison with in vivo (*Aotus trivirgatus*) life cycle stages

Development, Protozoa

Luckins, A. G.; and Gray, A. R., 1978, *Nature*, London (5654), v. 272, 613-614

Trypanosoma congolense, development in local skin reactions on rabbits at sites of infection transmitted by *Glossina morsitans*, evidence from light and electron microscopy that these trypanosomes develop in connective tissue and are not confined to the vascular system, implications

Development, Protozoa

Luecht, I. G.; Millard, B. J.; and Scholtyseck, E. O., 1978, *Parasitology*, v. 76 (2), 185-191

Eimeria tenella, embryo-adapted strain, fine structure and development in chicken embryos, complete endogenous cycle is restricted to epithelial cells of chorio-allantoic membrane, no major ultrastructural changes have occurred as result of repeated embryo passage

Development, Protozoa

Lugo-Hernandez, A., 1973, *Rev. Brasil. Biol.*, v. 33 (4), 561-573

Trypanosoma cruzi, comparison of growth and development in 199 medium with inactivated calf serum or with chicken embryo cells at 37° and 33° C

Development, Protozoa

McLaren, D. J.; et al., 1979, *Parasitology*, v. 79 (1), 125-139

Plasmodium knowlesi, interaction between malaria parasite and host erythrocyte, freeze fracture studies of internal cytoarchitecture of surface membranes

Development, Protozoa

Madden, P. A.; and Vetterling, J. M., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 298-301

Eimeria tenella, schizogony, scanning electron microscopy

Development, Protozoa

Martin, S. K.; et al., 1978, *Exper. Parasitol.*, v. 44 (2), 239-242

Plasmodium gallinaceum, induction of male gametocyte exflagellation by phosphodiesterase inhibitors, implicates cyclic nucleotides in initiation of this process

Development, Protozoa

Mehlhorn, H.; and Heydorn, A. O., 1978, *Advances Parasitol.*, v. 16, 43-91

Sarcosporidia, life cycle and fine structure, review

Development, Protozoa

Mehlhorn, H.; and Heydorn, A. O., 1979, *Ztschr. Parasitenk.*, v. 58 (2), 97-113

Sarcocystis suihominis, gamogony in human tissue cultures, electron microscopical study

Development, Protozoa

Mehlhorn, H.; Schein, E.; and Warnecke, N., 1979, *J. Protozool.*, v. 26 (3), 377-385

Theileria ovis, gamogony and sporogony in *Rhipicephalus evertsi evertsi*, electron-microscopic studies

Development, Protozoa

Meyer, H.; and Musacchio, M. de O., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (1), 7-9

Toxoplasma gondii in tissue culture, life cycle and development recorded by microcinematographic study in phase contrast

Development, Protozoa

Michael, E., 1978, *Ztschr. Parasitenk.*, v. 57 (3), 221-228

Eimeria acervulina, formation and final structure of oocyst wall, transmission and scanning electron microscopy

Development, Protozoa

Milder, R.; Kloetzel, J.; and Deane, M. P., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (5), 313-322

Trypanosoma cruzi trypomastigotes, interaction with hamster peritoneal macrophages at optical and ultrastructural levels in vitro, possible mechanisms of parasite intracellular fate, strain differences

Development, Protozoa

Neves, D. P., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (3), 155-161

Trypanosoma cruzi, effects of low and high temperatures on development in triatomines

Development, Protozoa

Nijhout, M. M., 1979, *Exper. Parasitol.*, v. 48 (1), 75-80

Plasmodium gallinaceum, exflagellation stimulated by mosquito factor

Development, Protozoa

Nijhout, M. M.; and Carter, R., 1978, *Parasitology*, v. 76 (1), 39-53

Plasmodium gallinaceum, gamete development, quantification of gamete development, changes in pH and pCO₂ during gametogenesis, suppression and recovery of exflagellation, bicarbonate requirement for emergence and exflagellation, regulation of gametogenesis by pH

Development, Protozoa

Pacheco, N. D.; Sheffield, H. G.; and Fayer, R., 1978, *J. Parasitol.*, v. 64 (2), 320-325

Sarcocystis cruzi, immature cyst, fine structure in relation to development and to multiplication of parasites within it

Development, Protozoa

Pan, S. C. T., 1978, *Exper. Parasitol.*, v. 46 (1), 92-107

Trypanosoma cruzi, ultrastructure of morphogenesis in vitro and in vivo (mice)

Development, Protozoa

Peroutka, M., 1975, 25. *Internat. Apicult. Cong. (Grenoble, Sept. 8-14)*, 386-387

Nosema apis, drones, influence of host diet on development

Development, Protozoa

Phillips, R. S.; Wilson, R. J. M.; and Pasvol, G., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 394-398

Plasmodium falciparum, differentiation of gametocytes in microcultures of infected human blood, can develop both from ring-stage parasites introduced into culture and from merozoites released during subsequent schizogonies in vitro, incorporation of [³H]-isoleucine by developing gametocytes

Development, Protozoa

- Pittilo, R. M.; and Ball, S. J., 1979, Parasitology, v. 79 (2), 259-265
Eimeria maxima, fine structure of developing macrogamete

Development, Protozoa

- Ramos, B.; and Urdaneta-Morales, S., 1977, Rev. Biol. Trop., v. 25 (2), 209-217
Trypanosoma rotatorium complex from frogs, experimental infection of hematophagous insects, course of development in *Aedes aegypti* gut, postulate transmission to frogs via ingestion of mosquitoes: Venezuela

Development, Protozoa

- Ribeiro, R. D.; Belda Neto, F. M.; and Barreto, M. P., 1978, Rev. Brasil. Biol., v. 38 (2), 345-349
Trypanosoma cruzi, 4 strains with morphologically different blood trypomastigotes, differences in development in coelomic cavity of *Panstrongylus megistus* (exper.)

Development, Protozoa

- Saftoiu, A.; and Caloianu-Iordachel, M., 1978, Trav. Mus. Hist. Nat. "Gr. Antipa", Bucuresti, v. 19, 83-87
Nosema lymantriae in *Lymantria dispar*, ultrastructural data on intracellular development, possible method of penetration into host cell nucleus, potential of parasite in control of forest pests

Development, Protozoa

- Scarborough, A.; and Weidner, E., 1979, Biol. Bull., v. 157 (2), 334-343
Glugea hertwigi in *Osmerus mordax*, prevalence in ovaries of spawning female hosts, transmission to young smelt by direct ingestion of spores or by ingestion of spore-carrying zooplankton, parasite development and xenoma growth

Development, Protozoa

- Schein, E.; and Friedhoff, K. T., 1978, Ztschr. Parasitenk., v. 56 (3), 287-303
Theileria annulata, development in haemolymph and salivary glands of *Hyalomma anatolicum excavatum*, light microscopy; hypothetical diagram of cycle in ticks

Development, Protozoa

- Sherkov, S. N.; Leitch, B.; and Kokash, L., [1977], Egypt. J. Vet. Sc., v. 13 (1), 1976, 37-43
Sarcocystis tenella, kittens (exper.), development in intestines, life cycle; attempted parasite suppression using statyl and pancloxin plus

Development, Protozoa

- Siau, Y., 1977, Compt. Rend. Acad. Sc., Paris, v. 285, s. D, Sc. Nat., (6), 681-683
Myxobolus exiguus, early stages of development in vitro

Development, Protozoa

- Sinden, R. E.; and Smalley, M. E., 1979, Parasitology, v. 79 (2), 277-296
Plasmodium falciparum, modified microculture technique used as bioassay for various antimetabolites by examining their ability to inhibit gametocytogenesis; characterization of sexual cell-cycle

Development, Protozoa

- Sinden, R. E.; and Strong, K., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 477-491
Plasmodium falciparum, sporogonic development in *Anopheles gambiae*, scanning and transmission electron microscopy, first surface view of micropore of *Plasmodium*

Development, Protozoa

- Speer, C. A., 1979, J. Parasitol., v. 65 (4), 591-598
Eimeria magna, development of gamonts and oocysts in cell cultures inoculated with merozoites, extent of sporulation and infectiousness of oocysts developing in such cultures

Development, Protozoa

- Terzakis, J. A.; et al., 1979, J. Protozool., v. 26 (3), 385-389
Plasmodium berghei, exoerythrocytic stages in rat liver, possible example of phagocytosis by Kupffer cells, electron microscopy

Development, Protozoa

- Trager, W., 1974, Ciba Found. Symp., n.s. (20), 225-254
 trypanosomes, leishmanias, nutrition and biosynthetic capabilities, problems of in vitro cultivation and differentiation, review

Development, Protozoa

- Urdaneta-Morales, S., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 218-221
Rhodnius prolixus fed on *Trypanosoma cruzi*-infected mice, refeeding experiments with secondary hosts (avian, mammals, reptiles) showed that parasite development in gut is inherent in the insect and not dependent on type of blood supplied by refeeding

Development, Protozoa

- Urdaneta-Morales, S.; and Rueda, I. G., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 241-250
Trypanosoma cruzi, Venezuelan strain vs. Brazilian strain, factors influencing adaptation, development, and multiplication in local race of *Rhodnius prolixus* vectors (laboratory strain originally from state of Guarico, Venezuela)

Development, Protozoa

- Vinnikova, N. V.; and Golikova, M. N., 1978, Tsitologiya, v. 20 (7), 731-735
Nyctotherus cordiformis, developed polytene chromosomes in macronuclear anlage, ultrastructure

Development, Protozoa

- Vivo Rodriguez, R., 1977, Noticias Neosan (186), v. 35, 35-38, 41-43
 coccidiosis, lambs, excretion and development of oocysts, humidity of bedding, and growth of hosts

Development, Protozoa

- Voronin, V. N., 1971, Parazitologiya, Leningrad, v. 5 (2), 186-191
Thelohania contejeani in *Astacus astacus* (skeletal and cardiac muscles, ovaries and eggs) (nat. and exper.), prevalence, pathogenesis, developmental cycle, possibility of transovarian as well as oral transmission: Leningrad oblast

Development, Protozoa

- Vossen, M. E. M. H.; et al., 1978, Ztschr. Parasitenk., v. 55 (2), 101-118
Pneumocystis carinii, cortisone acetate-treated rats, elaborate ultrastructural studies, intracellular and extracellular stages, new life cycle proposed; direct pathogenicity in host cells indicated

Development, Protozoa

- Wallace, F. G., 1977, Protozoology, v. 3, 51-56
 trypanosomatid flagellates, developmental stages, terminology, historical review

Development, Protozoa

- Walter, R. D.; Buse, E.; and Ebert, F., 1978, Tropenmed. u. Parasitol., v. 29 (4), 439-442
Leishmania tropica, *L. donovani*, in vitro, correlation between cyclic adenosine monophosphate concentration within cells and their proliferation and transformation

Development, Protozoa

- Weber, G.; and Friedhoff, K., 1979, Ztschr. Parasitenk., v. 58 (2), 191-194
Babesia bigemina, electron microscopic detection of initial and some subsequent developmental stages in *Boophilus microplus* salivary glands

Development, Protozoa

- Weidner, E.; and Overstreet, R. M., 1979, Cell and Tissue Research, v. 201 (3), 331-342
Fabespora vermicola, sporogenesis

Development, Protozoa

- Werner, H.; Springer, D.; and Koehler, H., 1977, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 239 (4), 557-564
Trypanosoma cruzi-like-strain, morphology, frequency and density of parasites in *Sanguinus oedipus*, infectivity to monkeys and rodents, no clinical or histopathological findings, parasitaemia, development in cell cultures, cyclical development in *Rhodnius prolixus* and *Triatoma infestans*

Development, Protozoa

- Wong, S. T. C.; and Desser, S. S., 1978, J. Protozool., v. 25 (3, pt. 2), 302-314
Leucocytozoon dubreuilii, development of secondary schizonts in renal tubule cells of *Turdus migratorius* and profound parasite-induced changes in these cells, electron microscopy

Development, Protozoa

- Wu, B.; et al., 1979, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 25 (1), 50-57
Myxobolus drjagini in *Hypophthalmichthys molitrix*, seasonal fluctuations with regard to occurrence and development of parasites, recommended prophylactic measures and treatment: hatchery ponds, Hangzhou region of Jiang Province

Development, Protozoa

- Yamamoto, T.; and Sanders, J. E., 1979, J. Fish Dis., v. 2 (5), 411-428
Ceratomyxa shasta, stages of development leading to sporogenesis, light and electron microscopy

Development, Protozoa

- Zizka, Z., 1977, Ztschr. Parasitenk., v. 54 (3), 217-228
Farinocystis tribolii in *Tribolium castaneum*, fine structure, developmental stages in sporogony, parasite-host relations (mitochondria of host concentrated around schizonts, consumption of host fat body by parasites, host development stopped)

Development, Protozoa

- Zizka, Z., 1978, J. Protozool., v. 25 (1), 50-56
Farinocystis tribolii, fine structure of schizonts and free merozoites and their development in fat body of larval *Tribolium castaneum*

Development, Trematoda

- Anderson, R. M.; and May, R. M., 1979, Parasitology, v. 79 (1), 63-94
Schistosoma spp. infections within snail populations, prevalence, spatial and temporal heterogeneity, duration of larval development and its dependence on temperature, mortality rates of infected and uninfected hosts; comparison of observed patterns with model predictions; new age-prevalence model, predictions compared with observed patterns; implications for overall transmission dynamics

Development, Trematoda

- Antunes, C. M. F.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (6), 383-386
Schistosoma mansoni, influence of gamma radiation on egg hatching, penetration power and development of miracidia in *Biomphalaria glabrata*, attempted immunization of snails with irradiated miracidia was unsuccessful

Development, Trematoda

- Bae, P. A.; Kang, P. A.; and Kim, Y., 1977, Bull. Fish. Research and Development Agency (Kungnip Susan Chinghungwon yon'gu pogo) (18), 131-140
Bacciger harengulae, cercarial development and seasonal incidence in hard clam, *Meretrix lusoria* (gonad, midgut, gill): western and southern coasts of Korea

Development, Trematoda

- Barbosa, M. A.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (3), 121-132
Schistosoma mansoni, mice, parasite migration studied by mathematical equations, moment of maximum parasite recovery, asynchronic development, quantitative aspects

Development, Trematoda

- Davies, C., 1978, Internat. J. Parasitol., v. 8 (3), 197-206
Fasciola hepatica, metacercariae grown in vitro in 2 different media, ultrastructure of tegument and digestive caeca, comparison with development of these 2 systems during maturation in vivo

Development, Trematoda

- Davies, C.; and Smyth, J. D., 1979, Internat. J. Parasitol., v. 9 (3), 261-267
Microphallus similis, development in the mouse and under a range of in vitro cultivation systems

Development, Trematoda

- Dixon, K. E.; and Colton, M., 1978, Internat. J. Parasitol., v. 8 (6), 491-499
Cloacitrema narrabeenensis, cystogenic cells in mature cercariae, surface structures of cercaria, formation of metacercarial cyst wall, light and electron microscopic and histochemical study

Development, Trematoda

- Dubey, J. P.; et al., 1979, Vet. Parasitol., v. 5 (4), 325-337
Paragonimus kellicotti, dogs (peritoneal cavity, pleural cavity, lungs) (exper.), migration and development, fecal diagnosis (sedimentation vs. McMaster technique), clinicopathological and hematologic data, radiologic findings, gross and microscopic pathology

Development, Trematoda

- Dumag, P. U.; et al., 1976, Philippine J. Animal Indust., v. 31 (1-4), 72-86
Fasciola gigantica-infected *Lymnaea rubiginosa* snails, intra-molluscan development, cercarial output, distribution pattern of metacercariae on pasture grasses

Development, Trematoda

- El-Abdin, A. Z.; and Roushdy, M. Z., 1977, Egypt. J. Bilharz., v. 4 (2), 165-178
Schistosoma haematobium, optimum conditions for life cycle maintenance in *Bulinus* snails and laboratory mammals; hamsters more susceptible to infection than gerbils or mice

Development, Trematoda

- Fournier, A., 1979, Ztschr. Parasitenk., v. 59 (2), 169-185
Polystoma integerrimum, *P. pelobatis*, tegument, ultrastructure during various stages of development

Development, Trematoda

- Fournier, A.; and Combes, C., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (10), 745-747
Eupolystoma alluaudi, demonstration of embryonic developmental duality resulting in 2 types of larvae, one of which is responsible for internal cycle (multiplication in host by sexual reproduction) and one of which assures host-to-host transmission

Development, Trematoda

- Fried, B.; and Nelson, P. D., 1978, Tr. Am. Micr. Soc., v. 97 (3), 402-405
Zygocotyle lunata, postmetacercarial development obtained by placing excysted metacercariae on 10-day-old chick chorioallantoic membranes

Development, Trematoda

- Georgiev, B., 1978, Vet. Med. Nauki, v. 15 (10), 45-50
Fasciola hepatica, length of development in *Galba truncatula* (nat. and exper.), seasonal distribution of cercarial release, overwintering: Rhodope mountains; Thracian lowlands

Development, Trematoda

- Ghandour, A. M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 219-225
Schistosoma haematobium, in vivo development in hamster, six stages of development distinguished on basis of morphological and histochemical characteristics

Development, Trematoda

- Ghandour, A. M.; and Babiker, A., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 227-230
Schistosoma bovis, in vivo development in Nile rat (*Arvicanthus niloticus*), six stages of development distinguished

Development, Trematoda

- Grabda-Kazubska, B., 1970, Acta Parasitol. Polon., v. 18 (42-50), 497-512
Haplometra cylindracea, life cycle, development, morphology, pathological changes in frog hosts: Poland

Development, Trematoda

- Grabda-Kazubska, B., 1974, Acta Parasitol. Polon., v. 22 (35-44), 393-400
Haplometra cylindracea, cercariae, penetration, routes of migration, and development in *Rana temporaria* and *R. arvalis* (both exper.)

Development, Trematoda

- Greenblatt, H. C.; Eveland, L. K.; and Morse, S. I., 1979, Exper. Parasitol., v. 48 (1), 100-108
Schistosoma mansoni, cercarial tail loss in vitro results from antibody-independent activation of serum complement system via alternative pathway

Development, Trematoda

- Gusev, A. V.; and Kulemina, I. V., 1971, Parazitologiya, Leningrad, v. 5 (4), 320-329
monogeneans of fish (primarily *Dactylogyrus*), variation in size of body and attachment organs, of localization on host, and of developmental cycle with respect to host age and size, taxonomic implications

Development, Trematoda

- Herman, S. M.; and Bacha, W. J., jr., 1978, J. Parasitol., v. 64 (5), 827-830
Himasthla quissetensis, successful infection of domestic chicks per cloaca using cercariae, growth, development, and site location (preference for ileum where worms grew and developed at rate comparable to those raised in gull, worms from bursa of Fabricius showed relatively little growth and exhibited gonadal atrophy in some cases)

Development, Trematoda

- Hsu, S. E., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 231-242
Schistosoma japonicum, in vitro culture, role of red blood cells in culture medium, egg production and development

Development, Trematoda

- Imada, R.; and Muroga, K., 1978, Bull. Japan. Soc. Scient. Fish., v. 44 (6), 571-576
Pseudodactylogyrus microrchis on *Anguilla anguilla* (gills), influence of water temperature on oviposition, hatching and development of parasite

Development, Trematoda

- Imohiosen, E. A. E.; Sher, A.; and von Lichtenberg, F., 1978, Parasitology, v. 76 (3), 317-326
Schistosoma mansoni *schistosomula* in vitro and in mouse lung, early developmental changes studied from perspective of surface antigenic expression and parasite motility, these changes may play role in determining survival of parasites in normal or immune host

- Development, Trematoda
 Irwin, S. W. B.; and Maguire, J. G., 1979, Internat. J. Parasitol., v. 9 (1), 47-53
Gorgoderina vitelliloba, ultrastructure of vitelline follicles
- Development, Trematoda
 Kearns, G. C., 1978, Internat. J. Parasitol., v. 8 (4), 305-311
Horricauda rhinobatidis and *Troglocephalus rhinobatidis* from *Rhinobatos batillum* (gills), level of infestation, microhabitat, larval development of *Horricauda*, possible role of certain structures in attachment and feeding: Queensland, Australia
- Development, Trematoda
 Kechemir, N., 1978, Ztschr. Parasitenk., v. 57 (1), 17-33
Halipegus ovocaudatus, development of tegument during four stages (cercaria, mesocercaria, metacercaria, adult), ultrastructure
- Development, Trematoda
 Kolzow, R. G.; and Nollen, P. M., [1979], J. Parasitol., v. 64 (6), 1978, 994-997
Schistosoma japonicum, development and movement of reproductive cells, effects of stressful conditions (in vitro culture; intraperitoneal maintenance in hamsters; unisexual transplants into hepatic portal system of hamsters)
- Development, Trematoda
 Komma, M. D., 1974, Rev. Patol. Trop., v. 3 (1), 57-63
Echinostoma erraticum sporocysts, morphological changes and development in experimentally infected *Biomphalaria straminea*
- Development, Trematoda
 Kraneburg, W.; and Boch, J., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (4), 71-75
Paramphistomum cervi, development in cattle, sheep, and roeder (all exper.)
- Development, Trematoda
 Krasnolobova, T. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 92-118
Plagiorchis elegans, development in final hosts, morphological variation, effect of host species, parasite age, and season
- Development, Trematoda
 Krasnolobova, T. A.; Iliushina, T. L.; and Rybakova, Z. I., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 73-75
Prosthogonimus ovatus, synonymy, extent of development of reproductive system varies with definitive host
- Development, Trematoda
 Ktari, M. H., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 61-67
Dionchus agassizi, *D. remorae*, anatomy, development, rate of parasitism on *Echeneis naucrates*, distribution of adults and egg clusters on gills: golfe de Tunis; golfe de Gabes
- Development, Trematoda
 Kulemina, I. V., 1977, Vestnik Leningrad. Univ. (9), s. Biol. (2), 12-18
Gyrodactylus sp., size of anchors and marginal hooks on opisthaptor, seasonal variation, dependence on water temperature, natural and experimental evidence
- Development, Trematoda
 Lambert, A., 1977, Ztschr. Parasitenk., v. 52 (3), 229-240
Ergenstrema mugilis, larval and postlarval development, ciliated cells, chaetotaxy, and excretory system of oncomiracidium
- Development, Trematoda
 Lambert, A., 1979, Ztschr. Parasitenk., v. 58 (3), 259-263
Dactylogyrus extensus, *Actinocleidus recurvatus*, postlarval changes in chaetotaxy
- Development, Trematoda
 Lengy, J.; and Gold, D., 1978, Israel J. Zool., v. 27 (4), 209-220
Cercaria levantina 14, 15, and 16, descriptions, swimming behavior, development, encystation attempts with *C. levantina* 16
- Development, Trematoda
 Loker, E. S., [1979], J. Parasitol., v. 64 (6), 1978, 977-985
Schistosomatum douthitti, development in *Lymnaea catascopium* (exper.)
- Development, Trematoda
 McLaren, D. J.; et al., 1978, Parasitology, v. 76 (3), 327-348
Schistosoma mansoni in vitro and in vivo (mice), developing tegumental outer membrane, freeze fracture study, changes in number and distribution of intramembraneous particles (IMP) during parasite maturation, reflection in alterations of ultrastructure and antigenicity of parasite surface
- Development, Trematoda
 Margolis, L.; and Boyce, N. P., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 893-907
Tubulovesicula lindbergi and *Lecithaster gibbosus* in captive *Oncorhynchus*, parasite life span, maturation, and growth
- Development, Trematoda
 Meuleman, E. A.; et al., 1978, Ztschr. Parasitenk., v. 56 (3), 227-242
Schistosoma mansoni, miracidium body wall, changes during penetration into snail and transformation into mother sporocysts, ultrastructure
- Development, Trematoda
 Miller, P.; and Wilson, R. A., 1978, Parasitology, v. 77 (3), 281-302
Schistosoma mansoni in laboratory rodents, migration and development of schistosomula with emphasis on time spent in cutaneous tissue, numbers which fail to reach circulatory vessels and exit from the skin, and their route of exit
- Development, Trematoda
 Mishchenko, V. F., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 102-112
Linstowiella viviparae, life cycle and development, description of egg, miracidium, sporocyst, cercaria, metacercaria, and marita

Development, Trematoda

- Mohandas, A.; and Nadakal, A. M., 1978, Ztschr. Parasitenk., v. 55 (2), 139-151
Echinostoma malayanum, development in rats, heavy population density effects (lengthened prepatent period, undersized worms, decreased proteins, lipids, calcium, and ash but not glycogen); pathological changes in rat intestine; in vitro metacercarial excystment

Development, Trematoda

- Nadykto, M. V., 1973, Parazitologiya, Leningrad, v. 7 (5), 408-417
Eurytrema pancreaticum, morphology, life cycle and development under conditions of Primorski krai

Development, Trematoda

- Neuhaus, W., 1978, Ztschr. Parasitenk., v. 55 (3), 209-221
Dicrocoelium dendriticum, *Pleurogenoides medians*, *Fasciola hepatica*, length of uterus as correlated with body size at different stages of development, mathematical analysis of growth

Development, Trematoda

- Niewiadomska, K.; and Kozicka, J., 1970, Acta Parasitol. Polon., v. 18 (42-50), 487-496
Cotylurus erraticus, life cycle, development, morphology

Development, Trematoda

- Odening, K.; Bockhardt, I.; and Graefner, G., 1979, Zool. Jahrb., Jena, Abt. Syst., v. 106 (2), 214-241
Paramphistomum spp., morphology and development of larval stages, variation and species differentiation, intermediate host specificity

Development, Trematoda

- Panin, V. Ia.; and Ksembaeva, G. Kh., 1971, Parazitologiya, Leningrad, v. 5 (4), 330-334
Eurytrema pancreaticum, migratory route and morphogenesis in rabbits and goats

Development, Trematoda

- Powell, E. C., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 136-141
Ochetosoma aniarum, metacercariae, early ultrastructural development of excretory bladder

Development, Trematoda

- Price, Z.; Voge, M.; and Beydler, S., 1978, Scan. Electron Micr., v. 2, 399-404
Schistosoma mansoni, mice, changes in tegumental surfaces during development

Development, Trematoda

- Raikhel, A. S., 1971, Parazitologiya, Leningrad, v. 5 (5), 441-445
Haplometra cylindracea, development and structure of mother and daughter sporocysts

Development, Trematoda

- Rees, F. G., 1978, Proc. Roy. Soc. London, s. B, Biol. Sc. (1140), v. 200, 245-267
Cryptocotyle lingua, ultrastructure and development of ventrogenital complex and its mode of operation in copulation

Development, Trematoda

- Rees, F. G., 1979, Ztschr. Parasitenk., v. 60 (2), 157-176
Cryptocotyle lingua, development and ultrastructure of female reproductive ducts in metacercaria and adult

Development, Trematoda

- Rondelaud, D.; and Barthe, D., 1978, Ann. Parasitol., v. 53 (2), 201-213
Fasciola hepatica, development of redial generations in *Lymnaea truncatula* in relation to temperature, desiccation of habitat, and host body size

Development, Trematoda

- Rondelaud, D.; and Barthe, D., 1978, Compt. Rend. Soc. Biol., Paris, v. 172 (6), 1194-1200
Fasciola hepatica, development of rediae in *Limnaea* spp., dependent upon host growth

Development, Trematoda

- Senft, A. W.; Gibler, W. B.; and Knopf, P. M., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 258-266
Schistosoma mansoni, tegument development in permissive (mouse, hamster) vs. non-permissive (rat) hosts, scanning electron microscopy

Development, Trematoda

- Seo, B. S.; and Kwak, J. W., 1972, Seoul Uidae Chapchi (Seoul J. Med.), v. 13 (4), 221-233
Paragonimus iloktsuenensis, metacercariae, morphology, measurements, growth and development in mice

Development, Trematoda

- Shatrov, A. S., 1974, Parazitologiya, Leningrad, v. 8 (3), 196-199
Metagonimus yokogawai, life cycle and development, biology of larval stages: upper Priamur'e

Development, Trematoda

- Shaw, M. K., 1979, Ztschr. Parasitenk., v. 59 (3), 277-294
Gastrocotyle trachuri, development of clamp attachment organs, electron microscopy

Development, Trematoda

- Shimura, S.; and Igusa, S., 1979, Bull. Japan. Soc. Scient. Fish. (Nippon Suisan Gakkaishi), v. 45 (10), 1255-1260
Proctoeces ichiharai, general morphology of developmental stages, growth and relative growth of internal organs

Development, Trematoda

- Southgate, V. R.; and Knowles, R. J., 1977, Ztschr. Parasitenk., v. 54 (3), 233-250
Schistosoma margrebowiei, morphology of egg, miracidium, and cercaria, compatibility with *Bulinus* spp., development in *Mesocricetus auratus*, pathogenicity

Development, Trematoda

- Stromberg, P. C.; and Dubey, J. P., [1979], J. Parasitol., v. 64 (6), 1978, 998-1002
Paragonimus kellicotti, life cycle in cats (exper.): migration, development, growth, maturation, distribution in lungs, egg production

- Development, Trematoda
Sumnalliev, P.; and Vasilev, I., 1976, *Khel-mintologiya*, Sofia, v. 1, 88-98
Paramphistomum microbothrium, effect of temperature, ultraviolet rays, and X-ray on development of eggs; miracidia hatch in dark but light has strong stimulating effect
- Development, Trematoda
Taft, S. J.; and Heard, R. W. III, 1978, *J. Parasitol.*, v. 64 (4), 597-600
Ophthalmophagus sp., near singularis, aspects of larval development, first report on life history in genus Ophthalmophagus and first record of cyclocoelids parasitizing marine snails: tidal marshes, Jackson County, Mississippi
- Development, Trematoda
Timofeeva, T. A., 1971, *Parazitologiya*, Leningrad, v. 5 (6), 517-523
Aspidogaster conchicola, nervous system, structure and development
- Development, Trematoda
Tinsley, R. C.; and Owen, R. W., 1979, *J. Helminth.*, v. 53 (4), 307-316
Xenopodistomum xenopodis from Xenopus laevis laevis (gall bladder), morphology, growth and development, prevalence and intensity of infection, absence of pathological effects, parasite's diet: imported to England from Cape Flats, near Cape Town, South Africa
- Development, Trematoda
Valenzuela, G., 1979, *Bol. Chileno Parasitol.*, v. 34 (1-2), 31-35
Fasciola hepatica eggs from bile of infected bovines, viability and survival as affected by in vitro development in outdoor temperatures: Valdivia, Chile
- Development, Trematoda
Voge, M.; Price, Z.; and Bruckner, D. A., 1978, *J. Parasitol.*, v. 64 (4), 585-592
Schistosoma mansoni, development of tegumental surface in mammalian host, scanning electron microscopy
- Development, Trematoda
Voge, M.; Price, Z.; and Bruckner, D. A., 1978, *J. Parasitol.*, v. 64 (5), 944-947
Schistosoma mekongi, changes in tegumental surface of male and female worms during development in mice
- Development, Trematoda
Wilson, R. A.; et al., 1978, *Parasitology*, v. 77 (1), 57-73
Schistosoma mansoni in mice, activity patterns and changes in body shape of schistosomula recovered from various locations during migration from skin to hepatic portal system, comparisons with schistosomula transformed and cultured in vitro
- Development, Trematoda
Yen, T. C.; Chiu, L. Z.; and Hsueh, H. C., 1974, *Tung Wu Hsueh Pao (Acta Zool. Sinica)*, v. 20 (3), 263-272
Schistosoma japonicum, development and changes of eggs in tissues of mice and rabbits, fluorescence-staining method for determining dead and living eggs in host tissues
- Diabetes
Mahmoud, A. A. F., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 286-290
Schistosoma mansoni, effect of mutation diabetes (marked immunosuppression) on host-parasite relationship in mice, decreased granulomatous response
- Diagnosis. [See also Immunity, Agglutination; Immunity, Complement; Immunity, Diagnosis; Immunity, Enzyme labelling; Immunity, Immobilization; Immunity, Precipitation; Immunity, Radioimmunoassay; Immunity, Skin tests; Immunofluorescence; Technique, Fecal examination; Technique, Stains]
- Diagnosis
Akhtaruzzaman, K. M.; et al., 1978, *Tropenmed. u. Parasitol.*, v. 29 (4), 427-431
comparison of different methods for detection of intestinal protozoa and helminths in human stool
- Diagnosis
Bartlett, M. S.; et al., 1978, *J. Clin. Microbiol.*, v. 7 (6), 524-528
modified zinc sulfate flotation technique evaluated in comparison with formalin-ether concentration method for recovery of protozoan cysts and helminth eggs and larvae from feces preserved in formalin less than and longer than 1 month, results suggest that (except for schistosomes) F-ZnSO₄ compares favorably to FE method for detecting infections of clinical significance
- Diagnosis
Bordin, E. L., 1978, *Diagnostico post-mortem em avicultura*, 165 pp.
- Diagnosis
Bozdech, V., 1978, *Ang. Parasitol.*, v. 19 (1), 33-40
human parasites, methods for collection and diagnosis: equatorial West Africa
- Diagnosis
Brandborg, L. L., 1979, *Am. J. Med.*, v. 67 (6), 999-1006
diseases of malabsorption, histologic diagnosis
- Diagnosis
Buck, A. A., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 171-179
tropical diseases, humans, diagnostic challenges, presentation of 43. Annual Charles Franklin Craig Lecture
- Diagnosis
Dancescu, P., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 473 [Letter]
modification of Harada-Mori culture method used in identifying helminths having a free larval stage
- Diagnosis
Garcia, L. S.; and Ash, L. R., 1979, *Diagnostic parasitology. Clinical laboratory manual*, 2. ed., 174 pp., illus.
protozoa, helminths, clinical laboratory techniques for collection, examination, and diagnosis

Diagnosis

Godfrey, D. G., 1978, *Nature*, London (5664), v. 273, 600-604

identification of economically important parasites (use of anatomical, biochemical, and behavioral tests), brief review

Diagnosis

Higashi, T.; et al., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 276-282
nitroblue tetrazolium test of limited diagnostic value in areas with high incidence of human intestinal parasites associated with Chagas disease or bilharziosis

Diagnosis

Im, K. I., 1974, *Taehan Iuhak Hyophoe Chi* (J. Korean Med. Ass.), v. 17 (9), 668-672
human parasitic diseases, laboratory diagnosis

Diagnosis

Ivens, V. R.; Mark, D. L.; and Levine, N. D., 1978, *Special Publication* (52), *Coll. Agric. and Vet. Med.*, Univ. Illinois, Urbana-Champaign, 270 pp.
parasites of domestic animals in United States, host-parasite list, life cycles, diagnostic technics

Diagnosis

Penny, R. H. C., 1978, *J. Small Animal Practice*, v. 19 (9), 479-492
simple hematologic techniques to aid the small animal clinician in making a diagnosis, review

Diagnosis

Poinar, G. O., jr.; and Thomas, G. M., 1978, *Diagnostic manual for the identification of insect pathogens*, 218 pp., illus.

Diagnosis

Ranta, J. M., 1978, *West. Veterinarian*, v. 16 (3), 15-19
differential diagnosis of acute diarrheal disease of foals

Diagnosis

Ratliff, C. R., 1979, *South. Med. J.*, v. 72 (9), 1181-1188
parasitic diseases, human, current status, diagnostic methods, review: United States

Diagnosis

Sykes, A. R., 1978, *Vet. Rec.*, v. 102 (2), 32-34
subclinical parasitism in sheep, effects of parasites localized in abomasum, small intestine, and liver on bodyweight gain, efficiency of food utilization, and serum constituents, diagnostic aids

Diagnosis, Acanthocephala

Buckner, R. L.; and Nickol, B. B., 1979, *J. Parasitol.*, v. 65 (1), 161-166
Fessisensis, 4 species differ in several characters not obscured by geographical or host-induced morphological variation; F. fessus, confirmation of life cycle

Diagnosis, Acanthocephala

Fotedar, D. N.; and Dhar, R. L., 1977, *Indian J. Zool.*, v. 5 (1), 15-24
Pomphorhynchus, differential diagnosis of species

Diagnosis, Acanthocephala

Huffman, D. G.; and Nickol, B. B., 1978, *J. Parasitol.*, v. 64 (5), 851-859
Pomphorhynchus bulbocolli, P. rocci, meristogam analysis revealed that these 2 species can be easily distinguished by measuring length of one hook in the 60-80 'percent-position' region of the proboscis

Diagnosis, Arthropoda

Amin, O. M., 1976, *J. Med. Entom.*, v. 13 (2), 179-192
fleas of mammals, morphological variations in certain key diagnostic characters, seasonal distribution, sex ratio, host sex: southeastern Wisconsin

Diagnosis, Arthropoda

Battelli, C.; et al., [1978], *Riv. Parassitol.*, Roma, v. 38 (2-3), 1977, 263-267
Rhipicephalus turanicus, R. sanguineus, and R. pusillus, differential characters: Arcipelago Siciliano

Diagnosis, Arthropoda

Bedford, P. G. C., 1978, *Vet. Ann.* (18), 232-238
Linguatula serrata, dog (nasal passage), rhinitis, differential diagnosis

Diagnosis, Arthropoda

Bohmfolk, G. T.; Price, M. A.; and Meola, S. M., 1979, *Southwest. Entom.*, v. 4 (2), 102-116
Boophilus annulatus, B. microplus, chaetotactic and morphologic comparisons of larvae, light and scanning electron microscopy

Diagnosis, Arthropoda

Busvine, J. R., 1978, *System. Entom.*, v. 3 (1), 1-8
Pediculus capitis and P. humanus, differential diagnosis, 2 distinct species

Diagnosis, Arthropoda

Gilot, B.; and Perez, C., 1978, *Rev. Suisse Zool.*, v. 85 (1), 143-149
Ixodes ventralloi, I. festai, differential diagnosis

Diagnosis, Arthropoda

Goncharov, A. I., 1973, *Parazitologiya*, Leningrad, v. 7 (3), 264-269
Paradoxopsyllus, 16 spp. arranged in 5 groups on basis of morphology of aedeagus

Diagnosis, Arthropoda

Hazelrigg, D. E.; and Jarratt, M., 1975, *South. Med. J.*, v. 68 (5), 549-551
scabies, 3 1/2-month-old child with persistent generalized eruption, mineral oil scrapings from skin revealed mites, clinical review of diagnostic and therapeutic techniques: Texas

Diagnosis, Arthropoda

Kremer, M.; Rebholtz, C.; and Delecolle, J. C., 1979, *Ann. Parasitol.*, v. 54 (2), 243-246
Fannia spp. larvae collected from urine of patient but under circumstances which did not permit verification of urinary myiasis; differential characters for the 3 species

- Diagnosis, Arthropoda**
 Kremer, M.; Rebholtz, C.; and Rieb, J. P., 1978, *Ann. Parasitol.*, v. 53 (4), 439-440
Dermatobia hominis, 3rd stage larvae, pattern of stigmatic plates, observation of an anomaly
- Diagnosis, Arthropoda**
 Machado-Allison, C. E., [1965], *Rev. Soc. Mexicana Hist. Nat.*, v. 25, 1964, 173-191
Megamblyopinus, *Amblyopinus*, *Amblyopinodes*, generic taxonomy revised, new characteristics of systematic importance recorded and used
- Diagnosis, Arthropoda**
 Meigel, W., 1979, *Taegl. Prax.*, v. 20 (3), 469-475
Acarus siro, human, clinical aspects, diagnostic and therapeutic problems
- Diagnosis, Arthropoda**
 Pfeiffer, H., 1979, *Ztschr. Parasitenk.*, v. 59 (1), 95-106
Cheyletiella blakei, cats, clinical symptoms also appeared in owner, alugan successfully removed mites from cats and owner's skin affection then disappeared; morphology, differential diagnosis from *C. parasitivorax*: Österreich
- Diagnosis, Arthropoda**
 Vargas V., M., 1970, *Rev. Biol. Trop.*, v. 17 (1), 1969, 27-89
Porocephalus stilesi eggs and nymphal stages, *P. clavatus* eggs, extensive morphological and morphometric comparisons with *P. crotali* to determine distinguishing characteristics; no satisfactory characters were confirmed
- Diagnosis, Arthropoda**
 Whiting, D. A., 1976, *Proc. Electron Microsc. Soc. South. Africa*, v. 6, 45-46
 pediculosis nits, human (hair), differentiation from pseudonits (peripilar casts), scanning electron microscopy
- Diagnosis, Cestoda**
 Alarcon G., T.; and Olivares L., L., 1975, *Rev. Invest. Clin.*, v. 27 (3), 209-215
 human cerebral cysticercosis, diagnosis by complement fixation or evidence of calcifications on X-ray, clinical symptoms, frequent coexistence of cysticercosis with other central nervous system conditions in areas of high prevalence
- Diagnosis, Cestoda**
 Ammann, R.; et al., 1979, *Deutsche Med. Wchnschr.*, v. 104 (42), 1466-1469
Echinococcus spp., humans, epidemiology, clinical aspects and course, diagnosis, review
- Diagnosis, Cestoda**
 Andersen, K.; and Halvorsen, O., 1978, *Parasitology*, v. 76 (2), 229-240
Diphyllbothrium spp., egg size and form (length, width, and length:width ratio) as taxonomic criteria, may contribute to species delimitation at population level but for identification at individual level 80% is best possible accuracy
- Diagnosis, Cestoda**
 Apt, W.; Barrera, R.; and Eggers, M., 1976, *Rev. Med. Chile*, v. 104 (3), 161-163
Echinococcus granulosus, human, cysts of thyroid, differential diagnosis by thin-needle biopsy, case reports: Chile
- Diagnosis, Cestoda**
 Arevalo Jimenez, E.; et al., 1976, *Rev. Espan. Enferm. Apar. Digest.*, v. 48 (6), 754-767
 human hepatic echinococcosis, radiologic diagnostic methods compared
- Diagnosis, Cestoda**
 Babcock, D. S.; Kaufman, L.; and Cosnow, I., 1978, *Am. J. Roentgenol.*, v. 131 (5), 895-897
Echinococcus granulosus, humans, diagnosis by gray scale ultrasonography
- Diagnosis, Cestoda**
 Bankov, D., 1976, *Vet. Med. Nauki*, v. 13 (10), 28-36
 cestodes of sheep, drug trials; *Stilesia globipunctata*, tested several diagnostic methods with unfavorable results
- Diagnosis, Cestoda**
 Baumeister, L.; and Merten, D., 1976, *Radiologe*, v. 16 (4), 140-143
 human echinococcosis, false radiologic diagnosis of splenic cyst, recommendation that complement binding and Casoni skin test be used in conjunction with radiation for accurate diagnosis
- Diagnosis, Cestoda**
 Bianca, T.; et al., 1977, *Studi Sassaesi*, Sez. II, Med., v. 55 (5-6), 515-538
 echinococcosis, human kidney, extensive clinical review, diagnosis, pathology, therapy, surgical management, case report
- Diagnosis, Cestoda**
 Biering-Sørensen, U., 1977, *Dansk Vet.-Tidskr.*, v. 60 (21), 931-935
Cysticercus bovis, ultraviolet radiation for detection and diagnosis in meat inspection
- Diagnosis, Cestoda**
 Biersack, H. J.; et al., 1977, *ROEFO*, v. 127 (5), 422-427
 human hepatobiliary echinococcosis, differential diagnosis using ^{99m}Tc-diethyl-IDA in hepatobiliary scintigraphy
- Diagnosis, Cestoda**
 Cano, J. M.; et al., 1976, *Rev. Clin. Espan.*, v. 140 (1), 29-42
 human hepatic hydatid cysts, comparison of efficacy of 5 procedures commonly used to diagnose space occupying hepatic lesions, gamma-scan and arteriography proved most satisfactory
- Diagnosis, Cestoda**
 Carbajal, J. R.; et al., 1977, *Radiology*, v. 125 (1), 127-131
 human cysticercosis with nervous system involvement, radiologic features, value of computed tomography in assessing infections
- Diagnosis, Cestoda**
 Carrasquer, J.; et al., 1976, *Rev. Espan. Enferm. Apar. Digest.*, v. 47 (3), 317-328
 human hepatic echinococcosis, use of laparoscopy for diagnostic purposes, comparison with other diagnostic techniques

Diagnosis, Cestoda

Catalano, D.; and Fodera-Pierangeli, L., 1972, *Radiologie*, v. 12 (11), 358-360
Echinococcus granulosus, human, radiographic diagnosis of kidney cysts

Diagnosis, Cestoda

Dayras, M.; and Dubrisay, J., 1973, *Semaine Hop. Paris*, v. 49 (23), 1657-1666
echinococcosis, humans, hepatic cysts, case reports, radiologic diagnostic methods

Diagnosis, Cestoda

DeNardo, G. L.; et al., 1974, *Radiology*, v. 111 (1), 135-141
amebiasis, echinococcosis, humans, hepatic lesions diagnosed by means of scintiangiographic patterns

Diagnosis, Cestoda

Dharker, S. R.; et al., 1977, *Surg. Neurol.*, v. 8 (1), 31-34
cerebral hydatid cysts, diagnostic features, angiographic findings, case reports: India

Diagnosis, Cestoda

de Dios-Vega, J. F.; et al., 1977, *Rev. Clin. Espan.*, v. 144 (1), 37-42
human hepatic echinococcosis, evaluation of ultrasonics in diagnosis, useful in that it provides all diagnostic features (location, number, form, size, differentiation from other space occupying lesions)

Diagnosis, Cestoda

Elies, W.; and Pirschel, J., 1976, *ROEFO*, v. 124 (2), 187-188
human Echinococcus cysticus, myelographic diagnosis of cyst of lumbosacral area of spine with intravertebral involvement

Diagnosis, Cestoda

Farris, A.; and Mameli, P., 1976, *Studi Sassari, Sez. II, Med.*, v. 54 (5-6), 363-374
echinococcosis, human heart, presentation of myocardial infarction, case report, differential diagnosis

Diagnosis, Cestoda

Fernholz, H. J.; et al., 1976, *Roentgen-Blaetter*, v. 29 (10), 490-499
Echinococcus cysticus, E. alveolaris, discussion of various radiologic diagnostic techniques

Diagnosis, Cestoda

Gajjar, P. D.; and Sinclair-Smith, C. C., 1978, *South African Med. J.*, v. 54 (23), 984-986
echinococcosis, renal infections in children, pathology, diagnosis, usefulness and limitations of Casoni skin test and serological tests: South Africa

Diagnosis, Cestoda

Garrett, W. J.; et al., 1976, *Radiology*, v. 119 (2), 425-428
human hepatic echinococcal cysts, differential diagnosis using sulphur colloid liver scanning

Diagnosis, Cestoda

Goebel, N.; and Gander, M. P., 1977, *ROEFO*, v. 126 (1), 11-14
human echinococcal cyst in ventral septum of heart with resulting pulmonary valve stenosis, clinical case report; discussion of clinical features and radiologic diagnosis

Diagnosis, Cestoda

Gomez Pereda, R., 1974, *Radiologia, Madrid*, v. 16 (2), 143-146
human echinococcosis, diagnosis of hepatopulmonary cysts using iodized contrast medium

Diagnosis, Cestoda

Gomez Pereda, R.; et al., 1975, *Radiologia, Madrid*, v. 17 (6), 481-488
human echinococcosis, comparative diagnostic study of renal cysts using simple radiography, urography, xerography, echography and renal arteriography

Diagnosis, Cestoda

Guenther, R.; et al., 1975, *ROEFO*, v. 122 (3), 242-244
Echinococcus multilocularis, man, case report, alveolar hydatid disease with extensive biliary obstruction and large cavitation in the liver due to necrosis, clinical, epidemiologic and radiologic diagnostic findings

Diagnosis, Cestoda

Hivet, M.; et al., 1974, *Semaine Hop. Paris*, v. 50 (41), 2541-2543
echinococcosis, human, case report, value of diagnostic radiographic procedures in complicated hepatic cysts with opacification of bile ducts

Diagnosis, Cestoda

Iwamura, K., 1977, *Therapiewoche*, v. 27 (38), 6618-6638
helminth infections of liver, humans, diagnosis, pathology, extensive clinical review

Diagnosis, Cestoda

Jancic-Zguricas, M.; Isvaneski, M.; and Perunovic, P., 1976, *Srpski Arhiv Tselok. Lekar.*, v. 104 (10), 751-760
echinococcosis, cysticercosis, trichinosis affecting human heart, diagnostic problems in relation to clinical and pathological findings, case reports

Diagnosis, Cestoda

Jørgensen, R. J., 1978, *Dansk Vet.-Tidsskr.*, v. 61 (12), 577-585
echinococcosis, prevalence, diagnostic techniques, differential diagnosis of Taenia hydatigena and Cysticercus tenuicollis: Denmark

Diagnosis, Cestoda

Kasatkin, Iu. N.; et al., 1977, *Terap. Arkh.*, v. 49 (8), 20-24
differential radiologic diagnosis of focal lesions of liver, humans, includes echinococcosis

Diagnosis, Cestoda

Klemencic, J.; et al., 1976, *ROEFO*, v. 124 (1), 40-43
human echinococcosis, radiological course of pulmonary hydatid cyst before and after rupture into bronchial system, resultant tissue changes and discussion of surgical treatment, case report

Diagnosis, Cestoda

Koischwitz, D.; Frommhold, H.; and Grauthoff, H. J., 1979, *Deutsche Med. Wchnschr.*, v. 104 (11), 401-405
Echinococcus cysticus, E. alveolaris, humans, diagnosis in liver by ultrasound

Diagnosis, Cestoda

- Kulke, H.; Liehr, H.; and Braun, H., 1977, Roentgen-Berichte, v. 6 (1), 77-82
Echinococcus, human hepatic abscessed cysts, assessment of size, character and surrounding changes by means of endoscopic retrograde cholangio-pancreatography before surgical intervention is attempted

Diagnosis, Cestoda

- Le Riche, P. D.; and Sewell, M. M. H., 1978, Internat. J. Parasitol., v. 8 (6), 479-483
8 taeniid cestodes, differentiation by enzyme electrophoresis

Diagnosis, Cestoda

- Le Riche, P. D.; and Sewell, M. M. H., 1978, Research Vet. Sc., v. 25 (2), 247-248
Echinococcus granulosus, zymograms of glucose phosphate isomerase to differentiate biochemical strains, results indicate an 'ovine' strain (in sheep and cattle) and an 'equine' strain (in horses), strain from camels may also be biochemically different

Diagnosis, Cestoda

- McManus, D. P.; and Smyth, J. D., 1978, Parasitology, v. 77 (1), 103-109
Echinococcus granulosus (horse and sheep strains), E. multilocularis, differences in chemical composition and carbohydrate metabolism between species and strains

Diagnosis, Cestoda

- McManus, D. P.; and Smyth, J. D., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 259-265
Echinococcus granulosus, horse and sheep strains, and E. multilocularis, comparison of enzyme electrophoretic profiles

Diagnosis, Cestoda

- Mercati, U.; et al., 1978, Surg. Italy, v. 8 (2), 146-153
hepatic echinococcal cysts, human, diagnosis and surgical management of cysts that rupture into bile ducts, case reports

Diagnosis, Cestoda

- Merchante, A.; et al., 1975, Rev. Clin. Espan., v. 137 (3), 277-282
human hepatic echinococcosis with accompanying pulmonary infiltrations and eosinophilia, differential diagnosis, clinical case report: Spain

Diagnosis, Cestoda

- Michiels, J.; et al., 1970, Bull. Soc. Belge Opht. (155), 560-575
Cysticercus cellulosae, human, sub-conjunctival lesions, differential diagnosis from Sparganum mansonii

Diagnosis, Cestoda

- Muro, J.; et al., 1971, Rev. Clin. Espan., v. 122 (3), 199-210
human hepatic hydatid cysts, reports on 10 cases with large volume cysts of right lobe diagnosed by selective coeliac arteriography

Diagnosis, Cestoda

- Muro, J.; et al., 1972, Rev. Clin. Espan., v. 126 (6), 501-508
human hepatic hydatid cysts, diagnostic problems associated with arteriographic demonstration of left lobe cysts

Diagnosis, Cestoda

- Occhipinti, S.; and Satta, U., 1974, Recent Prog. Med., v. 56 (3), 275-306
echinococcosis, human hepatic, extensive review of past and present diagnostic methods: Italy

Diagnosis, Cestoda

- Oldenburg, K., 1973, Roentgen-Blaetter, v. 26 (12), 523-536
bilateral symmetrical echinococcosis of tibiae, man, confirmation of diagnosis by radiograph, scintigraphy and intracutaneous antigen test

Diagnosis, Cestoda

- Pietri, H.; and Kasbarian, M., 1978, Rev. Prat., Paris, v. 28 (37), 2853-2865
human hepatic hydatid cysts, review of radiographic and ultrasonic diagnostic techniques

Diagnosis, Cestoda

- Pochaczewsky, R.; and Sugar, A., 1979, Am. J. Roentgenol., v. 133 (1), 128-129
Taenia solium cysticerci, 14-year-old girl (eye), case report, diagnosis by contact B-scan ultrasonography

Diagnosis, Cestoda

- Proctor, E. M., 1972, South African Med. J., v. 46 (9), 234-238
Taenia solium, T. saginata, differential diagnostic features of mature worms

Diagnosis, Cestoda

- Ramos, L.; et al., 1975, Radiology, v. 116 (3), 539-542
human echinococcosis, radiologic characteristics of perforated pulmonary cysts

Diagnosis, Cestoda

- Ramos G., L.; et al., 1975, Radiologia, Madrid, v. 17 (5), 375-380
human echinococcosis, diagnosis of abdominal cysts using intravenous visceral tomography

Diagnosis, Cestoda

- Rausch, R. L.; Rausch, V. R.; and D'Alessandro, A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1195-1202
Echinococcus oligarthrus, E. vogeli, discrimination of larval stages on basis of rostellar hook dimensions

Diagnosis, Cestoda

- Reeder, M. M., 1973, Seminars Roentgenol., v. 8 (1), 47-71
Cysticercus cellulosae, filariasis, dracunculosis, human, radiologic diagnosis of infections in soft tissues

Diagnosis, Cestoda

- Reventos, J.; et al., 1976, Surg., Gynec. and Obst., v. 143 (4), 570-574
hepatic echinococcosis with intrathoracic involvement, human, radiological diagnosis, surgical management

Diagnosis, Cestoda

- Rizk, G. K.; Tayyarah, K. A.; and Ghandur-Mnaimneh, L., 1971, Radiology, v. 99 (2), 303-309
human echinococcosis of liver and spleen, study of angiographic changes in cysts, use in localizing cysts and in planning surgical approach for removal

- Diagnosis, Cestoda
Ruiz Perales, F.; Medina Diez, J.; and Aragon de la Cruz, G., 1976, Radiologia, Madrid, v. 18 (6), 441-444
echinococcosis, child with multiple cysts of lung, radiologic diagnosis with inversion of right diaphragm as defining characteristic
- Diagnosis, Cestoda
Schrumpf, J.; and Hoffer, P. B., 1977, Radiology, v. 125 (1), 170
cerebral echinococcal cyst demonstrated in young child by means of radionuclide angiogram, clinical case report
- Diagnosis, Cestoda
Segall, H. D.; et al., 1973, Surg. Neurol., v. 1 (3), 178-186
infections of human brain and meninges, neuroradiologic diagnostic features, includes intracranial cysticercosis and other parasitic conditions
- Diagnosis, Cestoda
Shtern, V. N.; and Gol'dfarb, M. G., 1976, Radiol. Diagnost., v. 17 (2), 231-240
human hepatic echinococcosis, methods used for radiologic diagnosis, review
- Diagnosis, Cestoda
Solis Herruzo, J. A.; et al., 1971, Rev. Clin. Espan., v. 120 (5), 431-436
human hepatic echinococcosis, diagnostic features of laparoscopy
- Diagnosis, Cestoda
Taguri, S.; and Dar, F. K., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 338-341
hydatid disease, human, differential diagnosis from cancer on basis of blood values and liver function tests, comparison of 3 immunodiagnostic tests (intradermal, complement fixation, indirect haemagglutination), usefulness of post-operative serological surveillance: Libya
- Diagnosis, Cestoda
Teymoorian, G. A.; and Bagheri, F., 1976, Radiology, v. 118 (1), 97-100
human echinococcosis of skull, clinical case reports, value of radiologic diagnosis, incidence most common in young males
- Diagnosis, Cestoda
Thelen, M.; et al., 1976, ROEFO, v. 124 (2), 110-119
human pulmonary echinococcosis, radiologic differentiation of lung changes associated with progressive pulmonary insufficiency
- Diagnosis, Cestoda
Thompson, R. C. A., 1978, Vet. Parasitol., v. 4 (2), 121-125
Echinococcus granulosus, horse and sheep strains in Great Britain, aspects of speciation, value of considering epidemiological, developmental, and biochemical criteria, review of recent work
- Diagnosis, Cestoda
Tiberio, G.; et al., 1976, Surg. Italy, v. 6 (3), 168-185
hydatid cyst of liver, humans, diagnosis using echography
- Diagnosis, Cestoda
Todd, K. S., jr.; and Schmidt, J. M., 1978, Canine Pract., Santa Barbara, v. 5 (1), 39-41
Dipylidium caninum, Taenia sp., Mesocostoides sp., dogs, differential diagnosis
- Diagnosis, Cestoda
Valencia, J. M.; Sapunar, J.; and Maturana, R., 1978, Bol. Chileno Parasitol., v. 33 (3-4), 73-77
Echinococcus granulosus, 14-year-old boy, case report, diagnosis by brain computerized tomography: Puerto Montt, Chile
- Diagnosis, Cestoda
Van Ros, G., 1973, Rev. Franc. Gastro-Enterol. (89), 35-50
human intestinal helminths, differential diagnosis
- Diagnosis, Cestoda
Vessal, K.; et al., 1977, Radiologie, v. 17 (7), 290-295
human pulmonary echinococcosis, role and limitations of radiology in diagnosis, clinical review
- Diagnosis, Cestoda
Wesley, I.; et al., 1979, Acta Cytol., v. 23 (2), 134-136
Echinococcus granulosus, man (liver), cytologic diagnosis, case report: Mississippi
- Diagnosis, Nematoda
Abukhalil, J. M., 1971, Radiography (439), v. 37, 173-177
Dracunculus medinensis, human, radiographic appearance of calcified worms, clinical case reports: Saudi Arabia
- Diagnosis, Nematoda
Albiez, E. J.; Schulz-Key, H.; and Brinkmann, U. K., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 417-419
onchocerciasis, human, quantitative assessment of microfilarial densities in skin snips subjected to different treatments (distilled water, saline, Ringer solution)
- Diagnosis, Nematoda
Alcaino, H.; et al., 1977, Arch. Med. Vet., Valdivia, v. 9 (1), 23-28
Dipetalonema sp., dogs, prevalence by age, breed, and sex of host, diagnostic efficiency of Knott and microhematocrit techniques compared: metropolitan area of Santiago, Chile
- Diagnosis, Nematoda
Arai, H. P.; and Arthur, J. R., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 377-383
Cucullanellus kanabus, growth patterns (allometry, isometry, curvilinear), implications for use of body proportions as diagnostic features when identifying and/or naming nematode species
- Diagnosis, Nematoda
Asami, K.; Enomoto, Y.; and Miura, S., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (1), 31-35
Necator americanus, Strongyloides stercoralis, humans, incidence; comparison of Harada-Mori, formalin-ether, and Hoffman methods for hookworm larvae identification: Pernambuco

- Diagnosis, Nematoda
de Azevedo, W. V., 1975, Radiol. Brasil., v. 8 (2), 113-126; (3), 223-238
Strongyloides stercoralis, humans, clinical aspects, diagnostic symptoms, case reports, extensive bibliography
- Diagnosis, Nematoda
de Azevedo, W. V., 1976, Radiol. Brasil., v. 9 (1), 53-76
Strongyloides stercoralis, humans, differential diagnosis using radiologic methods
- Diagnosis, Nematoda
Baba, H.; et al., 1978, Showa Igakkai Zasshi (J. Showa Med. Ass.), v. 38 (3), 339-340
ascariasis, human, small intestine, radiologic diagnosis
- Diagnosis, Nematoda
Bain, O.; Petit, G.; and Poulain, B., 1978, Ann. Parasitol., v. 53 (4), 421-430
Onchocerca of cattle, redescription of female and microfilariae of O. lienalis, differentiation from O. gutturosa (in addition to morphologic differences, the 2 species have different localizations of adults and of microfilariae and probably have different vectors), consequences of validity of both species (that in England in Simulium ornatum is probably O. lienalis not O. gutturosa)
- Diagnosis, Nematoda
Bekcic, N., 1975, Srpski Arhiv Tselok. Lekar., v. 103 (7-8), 653-657
ascariasis, human, radiologic diagnosis when clinical and laboratory findings are negative
- Diagnosis, Nematoda
Bessonov, A. S.; Uspenskii, A. V.; and Shekhovtsov, N. V., 1977, Veterinariia, Moskva (6), 62-64
trichinosis, swine, diagnosis, digestive apparatus for large scale mechanized inspection of samples in meat packing plants
- Diagnosis, Nematoda
Bogush, A. A., 1973, Vet. Nauka--Proizvod., Trudy, Minsk, v. 11, 171-175
Trichinella spiralis, Sarcocystis miescheriana, swine, differential diagnosis
- Diagnosis, Nematoda
Bueno, L.; et al., 1978, Prat. Vet. Equine, v. 10 (4), 153-155
Strongylus vulgaris, horse, mesenteric aneurysm detected by ultrasound
- Diagnosis, Nematoda
Chiejina, S. N., 1978, Vet. Rec., v. 103 (13), 278-281
Ostertagia ostertagi, healthy cows and calves, blood pepsinogen levels, compared with samples from diarrhoeic adult cattle, diagnostic value in mature cattle
- Diagnosis, Nematoda
Danilovic, Z.; and Devcic-Ivanis, M., 1978, Jugoslav. Ginek. i Opstet., v. 18 (5-6), 433-435
Enterobius vermicularis, women, vaginal smears, presence of pollen grains may cause diagnostic problems
- Diagnosis, Nematoda
Denham, D. A., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 517-524
filariasis, humans, key to microfilariae found in blood after staining with Giemsa or with Mayer's haemalum
- Diagnosis, Nematoda
Drasin, G. F.; Moss, J. P.; and Cheng, S. H., 1978, Radiology, v. 126 (3), 619-621
Strongyloides stercoralis colitis, humans, variations in pathologic findings as shown by radiography
- Diagnosis, Nematoda
Dubinsky, P.; and Rybos, M., 1978, Zool. Anz., Jena, v. 201 (5-6), 391-396
Ascaris suum, Ascaridia galli, amino acid content in reproductive organs of males and fertilized and non-fertilized females, potential application to differentiation of species
- Diagnosis, Nematoda
El-Moukdad, A. R., 1978, Ztschr. Parasitenk., v. 55 (3), 241-247
Protostrongylus rufescens, Muellerius capillaris, Cystocaulus ocreatus, Neostrongylus linearis, laboratory animals not successful hosts for study of development; differentiation of third stage larvae of Cystocaulus ocreatus and Neostrongylus linearis
- Diagnosis, Nematoda
Fain, A.; and Bastin, J. P., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 505-515
Onchocerca volvulus, humans, diagnostic methods, differentiation from Dipetalonema streptocercum, review
- Diagnosis, Nematoda
Feld, H., 1973, Radiology, v. 108 (1), 311-312
Dirofilaria immitis causing pulmonary infarction in man, diagnosis by radiology, clinical case report, patient had been caring for dog infected with heartworm: Florida
- Diagnosis, Nematoda
Fleming, W. J.; and Caslick, J. W., 1978, Cornell Vet., v. 68 (3), 391-395
abnormal behavior suggestive of rabies in Marmota monax diagnosed as cerebrospinal nematodosis, baermannization of brain tissue suggested for differential diagnosis: New York
- Diagnosis, Nematoda
Framstad, K., 1978, Norsk Vet.-Tidsskr., v. 90 (5), 305-306, 309-314
Trichinella spiralis, swine, several diagnostic methods, use in meat inspection, comparisons, review
- Diagnosis, Nematoda
Framstad, K., 1978, Norsk Vet.-Tidsskr., v. 90 (5), 315-320
trichinosis, Stomacher digestion methods for diagnosis in meat inspection, advantages in reliability, practicability, capacity and cost

Diagnosis, Nematoda

Galvez Rodriguez, A.; et al., 1976, Rev. Cubana Med., v. 15 (1), 7-12
human digestive tract parasites, diagnostic value of analysis of biliary drainage for evidence of gastrointestinal and biliary tract infections

Diagnosis, Nematoda

Goldsmid, J. M.; et al., 1972, S. African Med. J., v. 46 (8), 171-174
Wuchereria bancrofti, Dipetalonema perstans, microfilariae, humans, diagnosis, microhaematocrit centrifuge technique for quick screening followed by thick and thin blood film staining for species identification

Diagnosis, Nematoda

Goldsmid, J. M.; and Rogers, S., 1976, South African Med. J., v. 50 (29), 1129-1132
Wuchereria bancrofti, Dipetalonema perstans, humans, various recovery techniques available for laboratory diagnosis, laboratory regimen for routine investigations suggested; preliminary observations on treatment of D. perstans with mebendazole: Rhodesia

Diagnosis, Nematoda

Hawe, R. S., 1979, J. Am. Animal Hosp. Ass., v. 15 (5), 577-582
Dirofilaria immitis, cat (cranial vena cava), clinical diagnosis in absence of circulating microfilariae, sodium thiocetarsamide

Diagnosis, Nematoda

Henriksen, S. A., 1977, Dansk Vet.-Tidsskr., v. 60 (13), 610-611
Trichinella spiralis, microphotographs of muscle stage, use in diagnosis

Diagnosis, Nematoda

Henriksen, S. A., 1978, Acta Vet. Scand., v. 19 (3), 466-468
Trichinella spiralis, technique for demonstration of larvae in suspensions of digested muscle tissue

Diagnosis, Nematoda

Herd, R., 1978, J. Am. Vet. Med. Ass., v. 172 (12), 1430-1431
Dipetalonema reconditum, dogs, high microfilarial counts in blood attributed to a state of immunosuppression, concluded that microfilarial width is more reliable criterion than microfilarial numbers for differentiation of D. reconditum and Dirofilaria immitis

Diagnosis, Nematoda

Hood, D. M.; and Hightower, D., 1978, Am. J. Vet. Research, v. 39 (11), 1794-1798
pulmonary perfusion scintigram in dogs, potential value in clinical diagnosis of heartworm disease

Diagnosis, Nematoda

House, C.; and Glover, F. L., 1974, Pract. Vet., v. 46 (4), 20-21
Dirofilaria immitis, Dipetalonema spp., dogs, improved filter test for microfilariae detection evaluated and compared with direct smear method and modified Knott's test

Diagnosis, Nematoda

Humpherys, K.; and Hieger, L. R., 1979, v. 23 (6), 471-476
Strongyloides stercoralis, initial detection of unsuspected infestation on Papanicolaou-stained sputum smears of humans receiving long-term corticosteroid treatment

Diagnosis, Nematoda

Hyman, B. C.; and MacInnis, A. J., 1979, J. Parasitol., v. 65 (3), 421-425
Plasmodium spp., rapid detection in blood smears by fluorescence microscopy with 4'6 diamidino-2-phenylindole; can also be used to stain Toxoplasma and microfilariae

Diagnosis, Nematoda

Jancic-Zguricas, M.; Isvaneski, M.; and Perunovic, P., 1976, Srpski Arhiv Tselok. Lekar., v. 104 (10), 751-760
echinococcosis, cysticercosis, trichinosis affecting human heart, diagnostic problems in relation to clinical and pathological findings, case reports

Diagnosis, Nematoda

Kale, O. O., 1978, Bull. World Health Organ., v. 56 (1), 133-137
onchocerciasis, human, new simplified technique for counting microfilariae in skin snips, comparison with 2 other methods

Diagnosis, Nematoda

Karnaukhov, V. K., 1979, Sovet. Med. (5), 86-90
helminthiasis, humans, typical errors in diagnosing and treating acute and chronic infections, especially hormone administration prior to diagnosis, case reports, management

Diagnosis, Nematoda

Kassur, B.; et al., 1974, Przegl. Epidemiol., v. 28 (3), 275-282
human trichinosis, analysis of clinical symptoms and complications as presented in 402 observed cases: Warsaw, Poland

Diagnosis, Nematoda

Kassur, B.; et al., 1974, Przegl. Epidemiol., v. 28 (3), 283-291
Trichinella spiralis, humans, differential diagnostic difficulties, analysis of cases showed a predominance of allergic symptoms in the early stages of infection and protein deficiency in late stages as the 2 most confusing diagnostic presentations

Diagnosis, Nematoda

Kerboeuf, D., 1979, Rev. Med. Vet., Toulouse, v. 130 (10), 1359-1360, 1365-1368
strongylosis, ruminants, diagnosis, blood pepsinogen levels

Diagnosis, Nematoda

Kotel'nikov, G. A.; and Khrenov, V. M., 1978, Veterinariia, Moskva (4), 69-72
dictyocaulosis, sheep, rapid diagnosis, sedimentation and flotation methods of fecal examination

Diagnosis, Nematoda

Laudanna, A. A.; et al., 1978, Rev. Hosp. Clin., S. Paulo, v. 33 (2), 88-94
small intestinal biopsy for differential diagnosis, strongyloidiasis and ancylostomiasis among diseases successfully diagnosed by this method

Diagnosis, Nematoda

- Lawrence, D. N.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 991-996
Mansonella ozzardi, Amerindian populations, age group- and village-specific prevalence, diagnosis by peripheral blood lymphocyte cultures compared with Giemsa-stained peripheral blood smears: states of Amazonas and Acre, Brazil

Diagnosis, Nematoda

- Lichtenfels, J. R., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 111-119
 6 *Cooperia* spp. of North American ruminants, differences in cuticular ridges, use in identification of males and females, key

Diagnosis, Nematoda

- Llanio, R.; and Sotto, A., 1972, Semaine Hop. Paris, v. 48 (17), 1223-1225
 visceral larva migrans, human, diagnosis by laparoscopy

Diagnosis, Nematoda

- Louisy, C. L.; and Barton, C. J., 1971, Radiology, v. 98 (3), 535-541
Strongyloides stercoralis, humans, enteritis, radiologic diagnosis, case reports: Jamaica

Diagnosis, Nematoda

- MacKay, R. J.; and Urquhart, K. A., 1979, Equine Vet. J., v. 11 (2), 110-112
Dictyocaulus arnfieldi, presumptive diagnosis in 8 horses with eosinophilic bronchitis, infection confirmed in companion donkey, thiabendazole treatment, usefulness of cytology of tracheobronchial secretions in differential diagnosis

Diagnosis, Nematoda

- McMahon, J. E.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 457-464
Wuchereria bancrofti, 3 techniques (standard slide method, counting chamber technique, and membrane filtration technique) compared for counting microfilariae in blood specimens

Diagnosis, Nematoda

- Michel, J. F.; et al., 1978, Vet. Rec., v. 103 (17), 370-373
Ostertagia ostertagi, cattle (exper.), plasma pepsinogen levels, little difference between calves exhibiting clinical symptoms and loss of growth and calves without these symptoms, relevance of findings to use of pepsinogen test in diagnosis of *ostertagia*-sis

Diagnosis, Nematoda

- Miller, I., 1977, Eesti Pollumaj. Akad. Teadusl. Toode Kogum. (104), 119-127
Trichinella spiralis, wild animals, diagnostic techniques: Estonian SSR

Diagnosis, Nematoda

- Nakazawa, S.; et al., 1979, Nippon Shokakibyō Gakkai Zasshi (Japan. J. Gastroenterol.), v. 76 (8), 1728-1734
 ascariasis, humans, differential diagnosis, cholangiography

Diagnosis, Nematoda

- Nathan, M. B.; Bartholomew, C. F.; and Tikasingh, E. S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 420-422
Mansonella ozzardi, human, microfilaria concentrations in capillary and venous blood and in skin compared, 24-hour observation of circulating microfilariae showed considerable variation between subjects but no evidence of periodicity, *Wuchereria bancrofti* exhibited nocturnal periodicity in 2 subjects with mixed infections: Trinidad

Diagnosis, Nematoda

- Nathan, M. B.; and Raccurt, C., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 455-457
Wuchereria bancrofti, *Mansonella ozzardi*, higher concentrations of microfilariae in capillary blood from the ear lobe than from the finger, applications for microfilarial surveys: Haiti, Trinidad

Diagnosis, Nematoda

- Ohmori, Y.; and Suzuki, T., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (5), 382-395
Angiostrongylus cantonensis, young adult stages, morphology in cross section as aid to identification in tissue sections

Diagnosis, Nematoda

- Okpala, I.; Ikeme, M. M.; and Dike, S. I., 1978, Bull. Animal Health and Prod. Africa, v. 26 (2), 132-141
 strongylate nematodes of Nigerian cattle, identification, faecal culture, infective larvae, descriptions, key: Nigeria

Diagnosis, Nematoda

- Omar, M. S.; Franz, M.; and Buettner, D. W., 1979, Tropenmed. u. Parasitol., v. 30 (1), 113-119
Onchocerca volvulus, humans, epidemiologic pilot study, scanning electron microscopy and histochemical staining of microfilariae confirmed that the filariae are *O. volvulus* although local form of the disease is frequently sowda: Yemen Arab Republic

Diagnosis, Nematoda

- Omar, M. S.; and Kuhlrow, F., 1977, Tropenmed. u. Parasitol., v. 28 (4), 552-553
Loa loa, *Dipetalonema perstans*, differentiation using histochemical patterns of acid phosphatase activity in microfilariae

Diagnosis, Nematoda

- Oyerinde, J. P. O., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 363-367
Necator americanus, *Ancylostoma duodenale*, species identification based on egg size and/or morphology of infective larvae, method of calculating proportions of each species in mixed infections: Nigeria

Diagnosis, Nematoda

- Park, H. G., 1977, Taehan Uihak Hyophoe Chi (J. Korean Med. Ass.), v. 20 (2), 143-147
 ascariasis, human biliary tract, cholangiography, surgical and anthelmintic therapy, case reports

Diagnosis, Nematoda

- Peralta, N. R.; and Rodrigues, M. A., 1978, *Acta Cytol.*, v. 22 (2), 61-63 [Letter]
Strongyloides stercoralis, humans, diagnosed cytologically from gastric and duodenal aspirates, patients presented with symptoms of malignancy, case reports

Diagnosis, Nematoda

- Przyjałkowski, Z.; Zapart, W.; and Starzynski, S., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (12), 875-880
Toxocara canis, mice, intravital diagnosis of early larva migrans, serological and haematological tests, histopathological changes in tissues, numbers of larvae detected in various internal organs

Diagnosis, Nematoda

- Puylaert, F., 1967, *Bull. Mus. National Hist. Nat., Paris*, 2. s., v. 38 (6), 1966, 921-927
Libyostrongylus and *Paralibyostrongylus*, revised diagnosis

Diagnosis, Nematoda

- Reeder, M. M., 1973, *Seminars Roentgenol.*, v. 8 (1), 47-71
Cysticercus cellulosae, filariasis, dracunculosis, human, radiologic diagnosis of infections in soft tissues

Diagnosis, Nematoda

- Robinson, M. J.; Viamonte, M.; and Viamonte, M., jr., 1974, *South. Med. J.*, v. 67 (4), 461-462
Dirofilaria immitis, human, diagnostic consideration for pulmonary coin lesions, case report: Florida

Diagnosis, Nematoda

- Ryley, J. F.; and Hardman, L., 1978, *J. Parasitol.*, v. 64 (5), 878-881
Eimeria acervulina, *E. mivati*, speciation studies (cross-immunity and drug resistance studies), some immunological relationship was demonstrated but the failure of the 2 organisms to interbreed in the drug resistance studies lends support to status of *E. mivati* as distinct species

Diagnosis, Nematoda

- Sahai, B. N.; and Sinha, A. K., 1979, *Indian J. Animal Sc.*, v. 49 (2), 161-163
Haemonchus contortus, *H. bispinosus*, two distinct species

Diagnosis, Nematoda

- Santiago, M. A. M.; da Costa, U. C.; and Benevenga, S. F., 1978, *Rev. Centro Cien. Rurais*, v. 8 (3), 191-198
nematodes, cattle, quantitative and qualitative diagnosis, fecal egg count vs. larval culture

Diagnosis, Nematoda

- Sato, G.; et al., 1977, *Nippon Zyuisei-Kai Zassi (J. Japan Vet. Med. Ass.)*, v. 30 (10), 549-550
microfilaria, rate of detection by capillary method

Diagnosis, Nematoda

- Schanzel, H.; et al., 1978, *Acta Vet. Brno*, v. 47 (1-2), 91-95
Trichinella spiralis, mice, guinea pigs, serum creatine-phosphokinase activity not useful for diagnosis

Diagnosis, Nematoda

- Schillhorn van Veen, T. W.; and Blotkamp, J., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 33-35
Dipetalonema, *Dirofilaria*, *Onchocerca*, and *Setaria* spp., differentiation of *microfilariae* by using histochemical determination of enzyme activity

Diagnosis, Nematoda

- Schulz-Key, H., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 51-54
Onchocerca volvulus, technique to assess total number of *microfilariae* in skin snips

Diagnosis, Nematoda

- Selim, M. K.; Abdel-Rahman, M. S.; and Mossalam, I., 1972, *Vet. Med. J.*, Giza, v. 20 (20), 211-215
equine strongyles, differential diagnosis of third stage larvae

Diagnosis, Nematoda

- Shelley, A. J.; et al., 1979, *J. Med. Entom.*, v. 16 (1), 48-51
Onchocerca volvulus, human, concentration of *microfilariae* by *Simulium sanguineum* during feeding, fly gut squash method compared with skin snips for mapping parasite distribution in skin or for diagnosis: Amazonas, Brazil

Diagnosis, Nematoda

- Shmytova, G. Ia., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 21, 157-166
Trichocephalus muris, embryonic development in vitro and post-embryonic development in mice described, morphological criteria for recognition of embryo and larval stages of *Trichocephalus*

Diagnosis, Nematoda

- Silverman, N. H.; Katz, J. S.; and Levin, S. E., 1973, *South African Med. J.*, v. 47 (6), 219-221
Capillaria hepatica in 17-month-old female, clinical presentation of visceral larva migrans, liver biopsy confirmed diagnosis, diethylcarbamazine and sodium antimonyl gluconate improved but did not cure infection: district of Bethal, South Africa

Diagnosis, Nematoda

- Soprunova, N. Ia.; Soprunov, F. F.; and Lur'e, A. A., 1973, *Ang. Parasitol.*, v. 14 (1), 11-17
Ascaris, humans, pigs (exper.), diagnosis, detection of volatile fatty acids in urine, may also be applicable to other helminth diseases

Diagnosis, Nematoda

- van der Spuy, S., 1978, *South African Med. J.*, v. 53 (25), 1030-1033
biliary ascariasis, children, diagnosis, evaluation of therapy, and removal of worms from biliary system using cholangiography and duodenoscopy, alternative to surgery

Diagnosis, Nematoda

- Stueben, E. B., 1978, *Mosquito News*, v. 38 (4), 586-587
Dirofilaria immitis, fluorescent dye technique used to detect infection in *Psorophora ferox*, possible application to other parasite infections in mosquitoes

Diagnosis, Nematoda

- Szczygiel, B.; and Talfi, I., 1973, *Przegl. Lek.*, v. 30 (8), 696-699
Dracunculus medinensis, humans, radiological diagnosis of calcified guinea worms

Diagnosis, Nematoda

- Szczygiel, B.; and Talfi, I., 1974, *Przegl. Lek.*, v. 31 (3), 413-415
Loa loa, humans, diagnosis, visualization of calcified worms by radiography

Diagnosis, Nematoda

- Tada, I.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 67-71
onchocerciasis, human, epidemiological survey, prevalence in relation to altitude, host age and sex distribution, relation between microfilariaria rate and nodule rate, examination of anterior chamber of eye, location of onchocercal nodules, comparison of diagnostic measures: San Vicente Pacaya, Guatemala

Diagnosis, Nematoda

- Thomas, H.; and Meister, G., 1979, *Tropenmed. u. Parasitol.*, v. 30 (2), 170-173
Dipetalonema witei, new cheap and time saving method to detect microfilariiae in peripheral blood of *Mastomys natalensis*

Diagnosis, Nematoda

- Van Ros, G., 1973, *Rev. Franc. Gastro-Enterol.* (89), 35-50
 human intestinal helminths, differential diagnosis

Diagnosis, Nematoda

- Vrijenhoek, R. C., 1978, *J. Parasitol.*, v. 64 (5), 790-798
Contracaecum, 2 morphologically indistinct populations of larvae from *Poeciliopsis* spp. and *Cichlasoma baeni*, electrophoretic examination of proteins (enzymatic and non-enzymatic) produced by 11 gene loci revealed presence of 2 sexually reproducing sympatric 'semispecies' that have diagnostically distinct alleles for 2 loci: Sonora, Mexico

Diagnosis, Nematoda

- Weller, P. F.; and Ottesen, E. A., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 31-32
Wuchereria bancrofti, in persons with sub-periodic infections diethylcarbamazine fails to provoke marked increase in circulating microfilariiae immediately after therapy is initiated; in contrast, in persons with nocturnally periodic infections there is significant increase

Diagnosis, Nematoda

- Wiger, R.; Barus, V.; and Tenora, F., 1978, *Zool. Scripta*, v. 7 (1), 25-31
Syphacia spp., ultrastructure of head and cuticle surface structure by scanning electron microscopy, taxonomic importance

Diagnosis, Nematoda

- Wong, M. M.; and Brummer, M. E. G., 1978, *J. Parasitol.*, v. 64 (1), 108-114
Dirofilaria 5 spp., cuticular morphology, scanning electron microscopy, possible aid in differentiation and recognition

Diagnosis, Nematoda

- Wong, M. M.; and Suter, P. F., 1979, *Am. J. Vet. Research*, v. 40 (3), 414-420
Dirofilaria immitis, dogs (exper.) without microfilaremia, indirect fluorescent antibody titers, degree of eosinophilia, and radiologic findings before and after treatment, reinfection, necropsy findings, significance of tests, application to diagnosis

Diagnosis, Nematoda

- Yen, P. K. F.; and Mak, J. W., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (2), 157-162
Brugia, *Wuchereria*, *Dirofilaria*, and *Breintlia* spp., microfilariiae, histochemical differentiation by distribution of acid phosphatase activity

Diagnosis, Nematoda

- Yoshida, Y.; et al., 1977, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 26 (3), 168-174
Ancylostoma braziliense, *A. ceylanicum*, whole body proteins, disc electrophoretic comparison

Diagnosis, Protozoa

- Abbitt, B.; and Ball, L., 1978, *Theriogenology*, v. 9 (3), 267-270
Trichomonas fetus, pregnant cows, diagnosis by culture of cervical-vaginal mucus, not completely accurate but may identify cows at high risk of abortion

Diagnosis, Protozoa

- Abranches, P., 1975, *Rev. Portug. Med. Mil.*, v. 23 (1-2), 64-66
Plasmodium spp., differential diagnosis, review

Diagnosis, Protozoa

- Adamali, N.; Wankya, B. M.; and Maneno, J., 1978, *East African Med. J.*, v. 55 (9), 414-416
 amoebic liver abscesses, humans, safe and rapid diagnosis with infusion tomography, case reports: Kenya

Diagnosis, Protozoa

- Albuquerque, R. D. R.; et al., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (1), 1-5
 Chagas disease, human, serial hemoculture in Warren's medium, valuable diagnostic technique

Diagnosis, Protozoa

- Al-Taqi, M.; and Evans, D. A., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 56-65
Leishmania spp., characterization by isoenzyme electrophoresis, comparison of stocks from Kuwait with stocks from other parts of Old and New Worlds

Diagnosis, Protozoa

- Amato Neto, V.; et al., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (5), 326-329
Toxoplasma gondii, human acquired lymphatic form, diagnosis by bone marrow examination

Diagnosis, Protozoa

- Amato Neto, V.; de Oliveira e Silva, Y. K.; and Konichi, S. R., 1973, *Rev. Soc. Brasil. Med. Trop.*, v. 7 (4), 219-224
Toxoplasma gondii, differential diagnosis of human lymphatic form, finding that fever is not always a constant sign in the clinical diagnostic picture

Diagnosis, Protozoa

Amerault, T. E.; et al., 1978, Am. J. Vet. Research, v. 39 (4), 675-677

Anaplasma marginale-infected bovine erythrocytes, serologic and hematologic response of rabbits; rabbits not susceptible to A. marginale despite specific antibody production as measured by card and complement fixation tests, therefore can not be substituted for calf inoculation as a confirmatory test for anaplasmosis

Diagnosis, Protozoa

Andersen, H. A.; Miller, W. E.; and Bernatz, P. E., 1973, Surg. Clin. North Am., v. 53 (4), 785-793

Pneumocystis carinii and other lung lesions, human, diagnosis by lung biopsy (transbronchoscopic, percutaneous, and open)

Diagnosis, Protozoa

Anderson, S. E.; and Remington, J. S., 1975, South. Med. J., v. 68 (11), 1433-1443

Toxoplasma gondii, humans, diagnosis, review

Diagnosis, Protozoa

Anthony, R. L.; Johnson, C. M.; and Sousa, O. E., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 969-973

Trypanosoma cruzi, T. rangeli, Panamanian villagers, diagnosis, micro-enzyme-linked immunosorbent assay, some serologic cross-reactivity between 2 species; comparison with complement fixation, direct agglutination, and clinical diagnosis

Diagnosis, Protozoa

Argiolas, N.; et al., 1974, Rassegna Med. Sarda, v. 77, n.s., v. 26 (3), 221-260

Entamoeba histolytica, human, extensive historical and diagnostic review, clinical aspects, epidemiology, pathology

Diagnosis, Protozoa

Arribada, A.; and Thiermann, E., 1971, Recent Advances Stud. Cardiac Struct. and Metab., v. 2, 655-668

Toxoplasma gondii, human cardiomyopathy, differential diagnosis, clinicoserologic correlations

Diagnosis, Protozoa

Ashton, N.; and Stamm, W., 1975, Tr. Ophth. Soc. United Kingdom, v. 95 (2), 214-220

acanthamoebic infections of human eyes, histologic features, diagnostic problems, clinical report

Diagnosis, Protozoa

Asteriades, G.; and Charalambides, S., 1978, Ellen. Kteniatrike, v. 21 (1), 25-28

Sarcocystis [sp.], ram, stallion, localization in bulbocavernosus muscle, diagnosis: Greece

Diagnosis, Protozoa

de Avila, C. A.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (4), 203-207

Toxoplasma gondii, evaluation of nitroblue tetrazolium dye test in diagnosis of acquired lymphatic forms of infection

Diagnosis, Protozoa

Bachrach, U.; et al., 1979, Exper. Parasitol., v. 48 (3), 457-463

Leishmania spp., cellular levels and synthesis of polyamines during growth cycle, polyamines characteristics might serve as further criterion for strain identification and classification

Diagnosis, Protozoa

Baker, J. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 483-491

Trypanosoma (Schizotrypanum) spp. from Microchiroptera, characterization by DNA buoyant densities and by electrophoretic patterns of 6 isoenzymes

Diagnosis, Protozoa

Ball, F.; et al., 1975, Roentgen-Blaetter, v. 28 (10), 443-454

Pneumocystis carinii interstitial pneumonia in children treated with immunosuppressive and cytostatic drugs for malignant systemic disease, radiologic diagnosis

Diagnosis, Protozoa

Balsdon, M. J.; et al., 1979, Brit. J. Vener. Dis., v. 55 (4), 289-291

Trichomonas vaginalis, women, diagnosis, new rapid staining technique, useful addition to wet-film and culture

Diagnosis, Protozoa

Barnett, D.; et al., 1977, Proc. 20. Ann. Meet., Am. Ass. Vet. Lab. Diagn. (Minneapolis, Minnesota, Oct. 16-18), 131-138

Sarcocystis cruzi, pregnant cows (exper.), abortion, practical diagnosis using maternal caruncle

Diagnosis, Protozoa

Barretto, M. P.; Ribeiro, R. D.; and Belda Neto, F. M., 1978, Rev. Brasil. Biol., v. 38 (4), 771-773

Trypanosoma cruzi, strains isolated from human cases of Chagas' disease and from infected triatomines and wild Brazilian mammals, behavior in Ricman and Robson's blood incubation infectivity test

Diagnosis, Protozoa

Berkovits, L., 1975, Magy. Radiol., v. 27 (5), 283-289

Entamoeba histolytica, colitis, humans, pathologic changes determined by radiologic means

Diagnosis, Protozoa

Bertinetti, E. dos S., 1974, Radiol. Brasil., v. 7 (2), 91-94

Trypanosoma cruzi, human, dilatation and motion of esophagus as diagnostic feature in conjunction with serologic findings

Diagnosis, Protozoa

Biersack, H. J.; et al., 1977, Therapiewoche, v. 27 (20), 4033-4038

amoebic hepatic abscess, humans, diagnosis and treatment analysis using scintigraphy

Diagnosis, Protozoa

Bittencourt, A. L.; and Barbosa, H. S., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (4), 260-263

Chagas disease, congenital, diagnosis through study of fetal remains

Diagnosis, Protozoa

- Blandon, R.; Guevara, J. F.; and Johnson, C. M., 1976, *Rev. Med. Panama*, v. 1 (3), 153-162
Chagas disease in children, diagnosis, pathology, therapeutic trials with various drugs, metronidazole was well tolerated and therefore most promising therapy: Panama

Diagnosis, Protozoa

- Bloch, M.; Rivera G., H.; and Soundy C., J., 1976, *Rev. Inst. Invest. Med., San Salvador*, v. 5 (4), 385-394
[Entamoeba] histolytica, analysis of syndromes considered as acute diarrheal diseases, differential diagnosis of amoebic dysentery from other forms of dysentery

Diagnosis, Protozoa

- Boch, J.; Mannewitz, U.; and Erber, M., 1978, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 91 (6), 106-111
Sarcocystis suihominis, S. suicanis, occurrence in slaughter pigs of different ages; trypsin digestive method more reliable diagnosis than trichinoscopy, species differentiation: slaughterhouses in South Germany

Diagnosis, Protozoa

- Bogush, A. A., 1973, *Vet. Nauka--Proizvod.*, Trudy, Minsk, v. 11, 171-175
Trichinella spiralis, Sarcocystis miescheriana, swine, differential diagnosis

Diagnosis, Protozoa

- Borten, M.; and Friedman, E. A., 1978, *Obst. and Gynec.*, v. 51 (1), 111-113
Trichomonas vaginalis, study of duration of colposcopic changes associated with human vaginitis shows that colposcopic evaluation of abnormal Papanicolaou smears can be carried out within 2 weeks of initiating metronidazole antitrichomonal therapy

Diagnosis, Protozoa

- Botha, W. S.; Van Dellen, A. F.; and Stewart, C. G., 1979, *J. South African Vet. Ass.*, v. 50 (2), 135-144
Encephalitozoon [sp.], dogs (nat. and exper.), clinical, clinicopathological, macroscopic, and histopathological findings, electron microscopic and cultural confirmation, transmission experiment: South Africa

Diagnosis, Protozoa

- Boulton, J. E.; and Lloyd, D. A., 1979, *Brit. J. Radiol.* (623), v. 52, 899-901
amoebic liver abscess rupturing into subphrenic space, child, diagnosis using radiography followed by ultrasound

Diagnosis, Protozoa

- Box, E. D.; and McGuinness, T. B., 1978, *J. Parasitol.*, v. 64 (1), 161-162
Sarcocystis recovered in beef from retail outlets by using a digestion technique

Diagnosis, Protozoa

- Boyle, A. L.; et al., 1979, *J. Clin. Path.*, v. 32 (3), 306-307 [Letter]
Naegleria, child, rapid detection of trophozoites in spinal fluid stained with bacterial stains

Diagnosis, Protozoa

- Brazil, R. P., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (3), 289-291
Leishmania spp., variation in electrophoretic mobility of the enzyme phosphoglucose mutase in the parasite and its application to the differentiation of leishmanial strains

Diagnosis, Protozoa

- Bretting, H.; and Schottelius, J., 1978, *Ztschr. Parasitenk.*, v. 57 (3), 213-219
Trypanosoma cruzi and T. cruzi-like strains, differentiation from T. rangeli but not from T. conorhini by microimmunofluorescence using lectin of sponge (Aaptos papillata)

Diagnosis, Protozoa

- Brown, R. C.; et al., 1978, *Postgrad. Med. J.*, London (634), v. 54, 555-558
amoebic hepatic abscesses, human, case reports, potential causes of delay in diagnosis, value of ultrasonic scanning of liver in differential diagnosis

Diagnosis, Protozoa

- Buenemann, H.; Petersen, F.; and Mohr, W., 1976, *ROEFO*, v. 124 (2), 126-131
human hepatic amoebiasis, size, localization and course of hepatic abscesses evaluated by scintigraphy and compared with clinical symptoms, use in diagnosis

Diagnosis, Protozoa

- Buyst, H., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 551-557
rhodesiense sleeping sickness, humans, diagnostic review of 400 cases (blood smear, cerebro-spinal fluid smear, gland aspirate): Zambia

Diagnosis, Protozoa

- Camargo, E. P.; et al., 1978, *Exper. Parasitol.*, v. 46 (2), 141-144
Trypanosoma, Leishmania, and Leptomonas spp., enzymes of ornithine-arginine metabolism, existence of genus-specific enzyme patterns which may serve as biochemical markers in classification of Trypanosomatidae

Diagnosis, Protozoa

- Campos, C.; de Rezende, J. M.; and Rassi, A., 1975, *Rev. Soc. Brasil. Med. Trop.*, v. 9 (4), 165-174
[Trypanosoma] cruzi, survey of blood donors for evidence of chagasic infection using the Guerreiro and Machado test (recommended as preferred diagnostic method); recommendation that gentian violet be added to all transfusion blood used in endemic areas as an additional precautionary measure

Diagnosis, Protozoa

- Carrillo Mancero, L.; and Ontaneda Polit, M., 1974, *Rev. Med.*, Quito, v. 1 (1), 16-24
human hepatic amoebic abscess, diagnosis by angiography

Diagnosis, Protozoa

Carter, R., 1978, *Parasitology*, v. 76 (3), 241-267

Plasmodium berghei, *P. yoelii*, *P. vinckei*, *P. chabaudi*, and their subspecies, electrophoretic variation of enzymes glucose phosphate isomerase, 6-phosphogluconate dehydrogenase, lactate dehydrogenase, and glutamate dehydrogenase, detailed description of technique, genetic and taxonomic implications, key for identification of murine plasmodia by enzyme type

Diagnosis, Protozoa

Cash, R. L.; Cutts, W. B.; and Quinn, R. F., 1976, *Rocky Mountain Med. J.*, v. 73 (1), 31-32
Pneumocystis carinii pneumonia in immunocompromised man who was receiving continuously assisted ventilation via tracheostomy tube, diagnosis using tracheostomy tube adapter for fiberbronchoscopy

Diagnosis, Protozoa

Cerecedo Cortina, V. B.; et al., 1975, *Rev. Med. Hosp. Gen., Mexico*, v. 38 (7), 447-457
 human hepatic amoebic abscess, diagnosis, peritoneoscopy

Diagnosis, Protozoa

Cerecedo Cortina, V. B.; et al., 1975, *Rev. Med. Hosp. Gen., Mexico*, v. 38 (8), 527-531
 human hepatic amoebic abscess, ultrasonographic studies on 50 patients, usefulness of this diagnostic method

Diagnosis, Protozoa

Chance, M. L.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (1), 13-22
Plasmodium (*Vinckeia*) spp., value of DNA studies employing buoyant density determinations and measurements of nucleotide sequence homology in systematics and identification

Diagnosis, Protozoa

Chance, M. L.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (6), 533-542
Leishmania, identification of 68 strains from Aethiopian zoogeographical region on basis of biochemical and serological taxonomy (nuclear and kinetoplast DNA buoyant density, excreted factor serotypes, enzyme variant types), epidemiological implications

Diagnosis, Protozoa

Chataing, B., 1976, *Rev. Franc. Transfus. et Immuno-Hematol.*, v. 19 (2), 327-330
 human malaria, differential diagnosis of infection with emphasis on cases found in non-endemic areas

Diagnosis, Protozoa

Chiari, E.; and Dias, J. C. P., 1975, *Rev. Soc. Brasil. Med. Trop.*, v. 9 (3), 133-136
 human Chagas disease, diagnosis using Lit medium and Mourao and Mello technique for blood cultures

Diagnosis, Protozoa

Chintana, T.; et al., 1979, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 10 (1), 81-84
Trichomonas vaginalis, women, diagnosis, wet vaginal smear and culture in Cystein-Peptone-Liver Maltose medium better than Papanicolaou smear

Diagnosis, Protozoa

Coutinho, E.; and Coelho, M. V., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (1), 12-29
Leishmania braziliensis, *L. mexicana*, *L. tropica*, experimental infections in laboratory animals, comparative pathology, characteristics for differential diagnosis

Diagnosis, Protozoa

Cowie, R. L.; et al., 1972, *South African Med. J.*, v. 46 (49), 1917-1920
 amoebic liver abscess, human, prevalence, clinical aspects, diagnostic significance of erythrocyte sedimentation rate and aspiration biopsy: Cape Town

Diagnosis, Protozoa

Croft, S. L.; Schnur, L. F.; and Chance, M. L., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (1), 93-94
Leishmania hertigi, taxonomic differentiation of strains from Panama and Brazil using morphological, biochemical and serological characteristics

Diagnosis, Protozoa

Cuaron, A.; et al., 1972, *Rev. Gastroenterol. Mexico* (219), v. 37, 129-135
 human amoebic hepatic abscess, diagnosis using ^{113m}Indium colloid or non-ionic ^{113m}Indium, carrier free; more detailed picture and more precise information obtained with non-ionic form

Diagnosis, Protozoa

Cuartas, F.; et al., 1972, *South. Med. J.*, v. 65 (6), 523, 546
Plasmodium falciparum, soldiers, diagnosis by bone marrow aspiration: Texas, recently returned from Vietnam

Diagnosis, Protozoa

Cursons, R. T.; Brown, T. J.; and Keys, E. A., 1978, *N. Zealand J. Med. Lab. Tech.*, v. 32 (1), 11-14
 primary amoebic meningo-encephalitis, humans, differential diagnosis and identification of aetiologic agents

Diagnosis, Protozoa

Daneshbod, K., 1978, *Am. J. Clin. Path.*, v. 69 (4), 462-467
Leishmania donovani presenting as localized lymphadenitis without cutaneous, mucosal or visceral involvement, histologic appearance simulated toxoplasmosis, 2 case reports, value of electron microscopy in differential diagnosis

Diagnosis, Protozoa

Das, S. R., 1975, *New Approaches Ident. Microorgan.*, 451-458
Naegleria-Hartmannella groups, agar plate method for isolation and cultivation of amoebae from infected humans and animals, soil, sewage sludge, fresh water, and other substrates

Diagnosis, Protozoa

Dee, P.; Winn, W.; and McKee, K., 1979, *Am. J. Roentgenol.*, v. 132 (5), 741-746
Pneumocystis carinii, human, diagnosis, correlation between radiologic and pathologic findings, usefulness of chest radiography in determining significance of infections

Diagnosis, Protozoa

- DeFord, J. W.; et al., 1973, South. Med. J., v. 66 (10), 1149-1153
amebiasis, new methods of diagnosis and treatment with emphasis on the indirect hemagglutination test and metronidazole

Diagnosis, Protozoa

- Degremont, A., 1977, Schweiz. Med. Wchnschr., v. 107 (18), 641-642
human malarias and amoebiasis, brief review of current diagnostic methods

Diagnosis, Protozoa

- Dei Cas, E.; et al., 1979, Ann. Parasitol., v. 54 (5), 567-570
Plasmodium, diagnosis, advantages of Errecart's modified technique for making thick blood films

Diagnosis, Protozoa

- DeNardo, G. L.; et al., 1974, Radiology, v. 111 (1), 135-141
amoebiasis, echinococcosis, humans, hepatic lesions diagnosed by means of scintiangiographic patterns

Diagnosis, Protozoa

- Donaldson, P.; et al., 1978, Stain Tech., v. 53 (4), 225-227
Plasmodium spp., diagnosis using borax methylene blue, spectroscopic and staining data

Diagnosis, Protozoa

- Doppman, J. L.; Geelhoed, G. W.; and De Vita, V. T., 1975, Radiology, v. 114 (1), 39-44
Pneumocystis carinii pneumonia, humans, atypical radiographic features discovered in over 50% of patients with known infections, since few X-rays can completely exclude this infection biopsy also may be necessary

Diagnosis, Protozoa

- Doroshenko, M. A.; and Pinchuk, L. E., 1978, Biol. Moria, Vladivostok (3), 88
Microsporidia, mucous glands in olfactory epithelium of some marine fishes are distinguishable morphologically and histochemically from epithelial cells affected by parasites

Diagnosis, Protozoa

- Dotolo, J. R., 1974, Rhode Island Med. J., v. 57 (3), 104-105
Toxoplasma gondii causing symptoms resembling infectious mononucleosis, need for consideration in differential diagnosis of persons manifesting a glandular fever syndrome

Diagnosis, Protozoa

- Ebert, F.; Schudnagis, R.; and Muehlpfordt, H., 1978, Tropenmed. u. Parasitol., v. 29 (1), 115-118
Trypanosoma cruzi and other Trypanosoma spp., protein typing by disc electrophoresis

Diagnosis, Protozoa

- Erber, M., 1977, Berl. u. Munchen. Tierarztl. Wchnschr., v. 90 (24), 480-482
Sarcocystis suicanis n. sp., S. suihominis, pigs, two methods for detection of cystozoites described and compared, differential diagnosis

Diagnosis, Protozoa

- Farre-Sostres, I.; et al., 1973, Rev. Espan. Pediat. (174), v. 29, 827-840
Pneumocystis carinii, pneumonia in infant presenting as eosinophilia, diagnosis through lung biopsy, successfully treated with pentamidine: Spain

Diagnosis, Protozoa

- Feldman, R., 1977, Acta Bioquim. Clin. Latinoam., v. 11 (2), 179-180
protozoa, techniques for microscopical diagnosis

Diagnosis, Protozoa

- Fennessy, J. J.; et al., 1974, Radiology, v. 110 (3), 555-561
Pneumocystis carinii, humans, diagnosis by means of transcatheter biopsy, frequently can detect infections when other methods have failed

Diagnosis, Protozoa

- Ferwerda, J.; and Dekker, W., 1976, Tijdschr. Gastro-enterol., v. 19 (6), 413-416
Giardia lamblia, humans, identification of parasite in duodenal contents aspirated during fibre-endoscopy

Diagnosis, Protozoa

- Fleiss, J. R., 1973, Rev. Brasil. Med., v. 30 (7), 461-469
amoebiasis, human intestinal, teclozan for both diagnostic and therapeutic purposes in instances of diagnostic problems and persistent chronic infections, case reports

Diagnosis, Protozoa

- Fleming, W. L.; et al., 1972, South. Med. J., v. 65 (7), 890-894
human vaginitis, diagnosis of Trichomonas vaginalis in women attending a health clinic, differentiation from gonorrhoeal and fungal infections: Kingston, Jamaica

Diagnosis, Protozoa

- Fraga Ortega, S., 1973, Rev. Cir. Hosp. Juarez, Mexico (187-188), v. 44, 1972-1973, 48-53
E[ntamoeba] histolytica, humans, review of currently available diagnostic methods (fecal examination, search for trophozoites in body exudates and fluids, seroimmunologic methods)

Diagnosis, Protozoa

- Franjola T., R.; et al., 1979, Rev. Med. Chile, v. 107 (5), 419-421
Trichomonas vaginalis, women, diagnosis, urine vs. vaginal smears: Chile

Diagnosis, Protozoa

- Gabalton, A.; and Ulloa, G., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 311-312
Plasmodium, quick and easy method to determine sporozoite index in vector mosquitoes

Diagnosis, Protozoa

- Galvez Rodriguez, A.; et al., 1976, Rev. Cubana Med., v. 15 (1), 7-12
human digestive tract parasites, diagnostic value of analysis of biliary drainage for evidence of gastrointestinal and biliary tract infections

Diagnosis, Protozoa

- Giaccchino, J. L.; et al., 1978, Surg., Gynec. and Obst., v. 146 (4), 599-603
amoebic colitis with concurrent ulcerative colitis, humans, diagnostic and therapeutic problems involved, medical management

Diagnosis, Protozoa

- Gibson, W.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (3), 335-345
Trypanosoma brucei gambiense, identification in Liberian pigs and dogs by isoenzyme electrophoresis and by resistance to human plasma, peptidase polymorphism demonstrated; stock from 2 pigs resistant to human plasma and contained enzyme marker previously found only in man, evidence that pigs are reservoirs for human infection in West Africa

Diagnosis, Protozoa

- Gibson, W. C.; et al., 1978, Comp. Biochem. and Physiol., v. 60B (2), 137-142
Trypanosoma evansi, 10 isolates compared, isoenzymes, soluble proteins, polypeptides, free amino acids (starch gel electrophoresis, isoelectric focusing, SDS polyacrylamide electrophoresis, amino acid analysis)

Diagnosis, Protozoa

- Giordano, C.; et al., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 213-225
African trypanosomiasis, humans, diagnosis (radiology, electroencephalography, immunofluorescence, immunoelectrophoresis, electrophoresis)

Diagnosis, Protozoa

- Godfrey, D. G., 1977, Protozoology, v. 3, 33-49
identification of morphologically similar trypanosomes of mammals

Diagnosis, Protozoa

- Godfrey, D. G., 1978, Nature, London (5664), v. 273, 600-604
identification of economically important parasites (use of anatomical, biochemical, and behavioral tests), brief review

Diagnosis, Protozoa

- Goldstein, F.; Thornton, J. J.; and Szydlowski, T., 1978, Am. J. Digest. Dis., n.s., v. 23 (6), 559-560
Giardia lamblia, humans, hepatobiliary form, trophozoites in bile, nonvisualization of gall bladder as important diagnostic feature, relief of biliary symptoms after metronidazole therapy, clinical case report

Diagnosis, Protozoa

- Goncalves de Lima, V. M. Q.; Roitman, I.; and Kilgour, V., 1979, J. Protozool., v. 26 (4), 648-652
trypanosomatids, 7 species distinguished by electrophoretic mobilities of some isoenzymes

Diagnosis, Protozoa

- Gordon, F.; et al., 1973, Radiology, v. 108 (1), 359-361
human hepatic amoebiasis, comparison of colloidal and ionic ^{113m}In in differential diagnosis from neoplasms

Diagnosis, Protozoa

- Greig, W. A.; et al., 1979, Brit. Vet. J., v. 135 (2), 130-141
Trypanosoma congolense, T. vivax, cattle, factors affecting blood sampling for parasitemia and anemia (diurnal variation; ear-vein vs. jugular-vein blood): The Gambia

Diagnosis, Protozoa

- Guelfi, J. F., 1978, Comp. Immunol., Microbiol. and Infect. Dis., v. 1 (1-2), 77-82
Haemobartonella felis in cats (nat. and exper.), value of examining blood smear for diagnosis and prognosis: region of Toulouse

Diagnosis, Protozoa

- Gupta, S. L.; Gautam, O. P.; and Bhardwaj, R. M., 1979, Indian J. Animal Sc., v. 49 (11), 971
Sarcocystis [sp.], sheep (diaphragm, heart muscle), prevalence, peptic digestion technique: Hissar, India

Diagnosis, Protozoa

- Habich, G. E.; et al., 1977, Gac. Vet., Buenos Aires (326), v. 39, 647-656
Tritrichomonas foetus, dairy bulls, prevalence, diagnosis by preputial washings: Catamarca, Noroeste Argentino

Diagnosis, Protozoa

- Hannon, R. H.; and Parr, C. W., 1978, Comp. Biochem. and Physiol., v. 60B (2), 177-181
Trypanosoma brucei, T. vivax, bloodstream forms, phosphoglucose isomerases, partial purification and characterization, comparison of the two species, many similarities in kinetic properties but differences in thermal stability and in isoelectric point

Diagnosis, Protozoa

- Hardy, R.; and Scullin, D. R., 1971, Radiology, v. 98 (1), 147-148
E[ntamoeba] histolytica, human intestinal, thumbprinting as a diagnostic feature of radiologic examination

Diagnosis, Protozoa

- Harris, L. M.; et al., 1976, Tr. Am. Microsc. Soc., v. 95 (4), Finley Mem. Issue, pt. 2, 599-606
Trypanosoma lewisi, blood and culture forms, T. conorhini, culture forms, isolation of DNA by 2 methods, characterization by GC base composition

Diagnosis, Protozoa

- Hendricks, L.; and Wright, N., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 962-964
leishmaniasis, human cutaneous infections of New and Old World origin, diagnosis by in vitro cultivation of saline aspirates from lesions in Schneider's Drosophila Medium supplemented with 30% fetal bovine serum

Diagnosis, Protozoa

- Henry, S. C., 1979, J. Am. Vet. Med. Ass., v. 174 (6), 601-603
Eperythrozoon suis, swine, clinical signs of infection confirmed by indirect hemagglutination and measuring packed cell volume; oxytetracycline and arsanilic acid combined with lice control, arsenic toxicosis

- Diagnosis, Protozoa
Hinaidy, H. K.; et al., 1979, Wien. Tierarztl. Monatsschr., v. 66 (5), 181-184
Sarcocystis spp., cattle, monthly occurrence, localization, diagnosis: Österreich
- Diagnosis, Protozoa
Hoffman, E. O.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 29-38
primary amebic meningoencephalitis, human (brain, pancreas), clinical findings, post-mortem studies, electron microscopy, immuno-histologic studies, evidence slightly more indicative of Acanthamoeba than Naegleria infection: Louisiana
- Diagnosis, Protozoa
Howard, R. J.; Battye, F. L.; and Mitchell, G. F., 1979, J. Histochem. and Cytochem., v. 27 (1), 803-813
Plasmodium berghei-infected red blood cells analyzed and sorted by flow fluorimetry with the DNA-binding dye 33258 Hoechst, possible applications in biochemical and immunochemical analyses and in clinical diagnosis
- Diagnosis, Protozoa
Hyman, B. C.; and MacInnis, A. J., 1979, J. Parasitol., v. 65 (3), 421-425
Plasmodium spp., rapid detection in blood smears by fluorescence microscopy with 4'6 diamidino-2-phenylindole; can also be used to stain Toxoplasma and microfilariae
- Diagnosis, Protozoa
Iatsukha, M. V.; et al., 1978, Vestnik Dermat. i Venerol. (9), 12-14
trichomoniasis, women and their sexual partners, culture diagnosis superior to staining methods
- Diagnosis, Protozoa
Ikai, T.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (5), 314-322
Pneumocystis carinii, method for concentration and quantitation of cysts
- Diagnosis, Protozoa
Intrasupt, S.; et al., 1976, Siriraj Hosp. Gaz., v. 28 (1), 1-7
amoebiasis, human hepatic abscess, diagnosis and differentiation from hepatic carcinoma using ^{99m}Tc technetium citrate as a liver scanning agent
- Diagnosis, Protozoa
Iyngkaran, N.; Lee, E. L.; and Robinson, M. J., 1978, Scand. J. Infect. Dis., v. 10 (3), 243-246
Giardia lamblia, children, single dose treatment with tiberol, effective in all children treated; diagnosis by mucosal imprint, examination of stools, duodenal juice, or jejunal biopsy material compared, mucosal imprint method most reliable: Malaysia
- Diagnosis, Protozoa
Joshua, R. A.; Herbert, W. J.; and White, R. G., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 602-603 [Letter]
Trypanosoma brucei gambiense, diagnosis, column chromatography
- Diagnosis, Protozoa
Kaplan, L.; and Pries, J. M., 1979, Dis. Colon and Rectum, v. 22 (8), 573-574
Entamoeba histolytica, elderly man living in state hospital, amoebic colitis, case report, diagnosis by colonoscopic biopsy: Minnesota
- Diagnosis, Protozoa
Kasprzak, W.; Mazur, T.; and Rucka, A., 1974, Ann. Soc. Belge Med. Trop., v. 54 (4-5), 351-357
4 strains of free-living amoebae isolated from lakes in Poland, pathogenicity for mice, response to several drugs, identified as Acanthamoeba spp. on basis of morphology and protein disc electrophoretic patterns
- Diagnosis, Protozoa
Katzin, A. M.; et al., 1979, Medicina, Buenos Aires, v. 39 (1), Jan.-Feb., 76-84
Trypanosoma cruzi epimastigotes, lectins used to investigate existence, localization and distribution of saccharides on parasite surfaces, possible use in differentiating species or strains as well as parasite stages
- Diagnosis, Protozoa
Kaufman, S. M.; Seckinger, D.; and Rosen, S., 1974, South. Med. J., v. 67 (3), 370-371
Pneumocystis carinii, human, early diagnosis with lung biopsy may be lifesaving, clinical case report
- Diagnosis, Protozoa
Kempmann, G.; Buehler, F.; and Koesters, W., 1976, ROFO, v. 124 (5), 424-427
Pneumocystis carinii, human, fatal pneumocystis pneumonia after renal transplantation, clinical and radiologic findings with diagnosis confirmed only on autopsy, clinical case report; needle biopsy recommended for definitive diagnosis
- Diagnosis, Protozoa
Kier, A. B.; et al., 1977, Proc. 20. Ann. Meet., Am. Ass. Vet. Lab. Diagn. (Minneapolis, Minnesota, Oct. 16-18), 123-130
Cytauxzoon sp., domestic cats, diagnosis, gross and microscopic lesions
- Diagnosis, Protozoa
Kisliakova, Z. I., 1970, Nauch. Trudy, Nauchno-Issled. Vet. Inst., v. 8, 124-126
Sarcocystis miescheriana, young pigs, diagnosis by compressor method
- Diagnosis, Protozoa
Klanica, J., 1978, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 27 (3), 179-184
Trichomonas vaginalis, staining of vaginal smears by fluorochrome acridine orange, potential diagnostic use
- Diagnosis, Protozoa
Krettek, J. E.; Goldstein, L. I.; and Busuttil, R. W., 1979, Surg., Gynec. and Obst., v. 148 (4), 552-556
amoebic hepatic abscess, humans, presentations of acute abdomen, differential diagnosis, surgical management, case reports
- Diagnosis, Protozoa
Krogstad, D. J.; et al., 1978, Ann. Int. Med., v. 88 (1), 89-97
Entamoeba histolytica, epidemiologic investigations of suspected foci of human amoebiasis occurring in the United States from 1971-1974, findings suggest diagnostic problems and misdiagnosis, suggests that stool examinations be supplemented with serology and microscopic diagnosis

Diagnosis, Protozoa

Lambrecht, A. J.; Snoeck, J.; and Timmermans, U., 1978, *Lancet*, London (8075), v. 1, 1206 [Letter]

Plasmodium vivax, man, transient an-alpha-lipoproteinemia during infection, lipid electrophoresis a sensitive test for diagnosis

Diagnosis, Protozoa

Le Bras, J.; and Payet, M., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 552 [Letter]

Plasmodium spp., human, concentration of parasitized erythrocytes by centrifugation on Ficoll R solution, useful method when attempting to confirm doubtful diagnosis

Diagnosis, Protozoa

Lee, E. H.; and Fernando, M. A., 1977, *Ztschr. Parasitenk.*, v. 53 (1), 129-131

Eimeria indentata, *E. maxima*, characterization of DNA in oocysts by weight and buoyant density, "*E. indentata* from the Malayan jungle fowl is not a species distinct from *E. maxima*," suggests use of technique for making species distinctions between morphologically similar, closely related species of *Coccidia*

Diagnosis, Protozoa

Lee, S. Y.; et al., 1973, *Taiwan i Hsueh Hui Tsa Chih* (J. Formosan Med. Ass.), v. 72 (2), 91-95

Toxoplasma gondii, recovery of cysts from swine brains, formalin-ether and impression smear on inoculated mouse brain compared with fluorescent antibody technique combined with gum Arabic concentration

Diagnosis, Protozoa

Lee, S. Y.; et al., 1975, *Taiwan i Hsueh Hui Tsa Chih* (J. Formosan Med. Ass.), v. 74 (2), 82-85

Toxoplasma gondii, detection of cysts in swine lymph nodes, trypsin digestion, frozen section and imprint smear methods compared with indirect hemagglutination

Diagnosis, Protozoa

Leefflang, P.; Buys, J.; and Blotkamp, C., 1978, *Internat. J. Parasitol.*, v. 8 (1), 15-18

Trypanosoma vivax, cattle, evaluation of parasitological diagnostic methods (thin and thick blood smear and lymph gland smear examination, haematocrit centrifuge technique, hypotonic lysis test, mouse inoculation)

Diagnosis, Protozoa

Lee Ramos, A. F.; Aguirre Garcia, J.; and Gonzalez Montesinos, F., 1972, *Rev. Med.*, Mexico, v. 11 (3), 188-196

Entamoeba histolytica, hepatic abscess, patients seen in emergency clinics, clinical data helpful in establishing a diagnosis, important guides to prognosis: Mexico

Diagnosis, Protozoa

Levenson, S. M.; et al., 1976, *Radiology*, v. 119 (2), 395-398

Pneumocystis carinii pneumonia, humans, potential usefulness of gallium scintigraphy in patients with suspected infections

Diagnosis, Protozoa

Lin Chu, M.; and Hsu, H. C., 1975, *Taiwan i Hsueh Hui Tsa Chih* (J. Formosan Med. Ass.), v. 74 (1), 48-53

Pneumocystis carinii, human interstitial plasma cell pneumonia, diagnosis by electron microscopy, case reports

Diagnosis, Protozoa

Loban, K. M.; and Polozok, E. S., 1978, *Sovet. Med.* (5), 59-61

human malaria, errors in diagnosing cases imported into non-endemic areas

Diagnosis, Protozoa

Lopez-Brea, M.; Iturriaga, R.; and Aparicio, M., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 348 [Letter]

Leishmania donovani, child, diagnosis using *Crithidia* sp. as antigen for the indirect fluorescent antibody test gave positive results earlier than direct smear from the spleen

Diagnosis, Protozoa

Lopez-Revilla, R.; and Gomez, R., 1978, *Exper. Parasitol.*, v. 44 (2), 243-248

Entamoeba histolytica strains, *E. invadens*, *E. moshkovskii*, fluctuations of DNA content of axenic trophozoites, variations generally but not always occurred within a range characteristic of each species, possible causes of variation, estimation of DNA content could help to distinguish these species despite variation

Diagnosis, Protozoa

Lumsden, W. H. R.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 312-317

Trypanosoma brucei, man, diagnosis using the miniature anion-exchange/centrifugation method, adaptation for field use: The Gambia

Diagnosis, Protozoa

Lundberg, Y., 1976, *Scand. J. Infect. Dis.*, v. 8 (4), 263-265

amoebiasis, human hepatic abscess, comparison of angiography and scintigraphy as diagnostic methods

Diagnosis, Protozoa

Martuscelli-Q., A.; Hernandez Gonzalez, A.; and Zuniga Telleria, V., 1977, *Rev. Invest. Salud Pub.*, Mexico, v. 37 (2), 93-99

Entamoeba histolytica, children with acute intestinal amoebiasis, counterimmunoelectrophoresis reaction over course of infection, limitations of this test show that diagnosis must still depend on demonstration of trophozoites in stool

Diagnosis, Protozoa

Mehlitz, D., 1979, *Tropenmed. u. Parasitol.*, v. 30 (2), 212-219

Trypanosoma spp., infection rates in domestic animals; screening of dogs and pigs to indicate potential reservoirs of *T. (Trypanozoon) brucei gambiense*; comparison of sensitivity of 3 diagnostic techniques; comparison of number of primary isolations and derived stabilized *Trypanosoma* stocks: rain forest areas, Liberia

Diagnosis, Protozoa

Melrose, T. R.; and Brown, C. G. D., 1979, *Research Vet. Sc.*, v. 27 (3), 379-381

piroplasms isolated from bovine blood infected with *Theileria annulata* and *T. parva*, isoenzyme variation

Diagnosis, Protozoa

- de Mendonca, J. S.; Amato Neto, V.; and Cotrim, J. X., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (5), 285-288
Toxoplasma gondii, human acquired lymphatic form, diagnosis by injecting infected lymphatic tissue into mice

Diagnosis, Protozoa

- Michael, S. A.; and El Refaii, A. H., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 229-231
Anaplasma marginale, buffaloes, use of both capillary tube agglutination test and blood-film examination recommended for survey and diagnostic purposes: Egypt

Diagnosis, Protozoa

- Migasena, P.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (1), 3-12
 human acute falciparum malaria, changes in serum protein patterns studied using polyacrylamide gel electrophoresis, other blood biochemical parameters

Diagnosis, Protozoa

- Migasena, P.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 355-361
 amoebic liver abscess, humans, serum protein patterns compared with those of patients with primary hepatoma using electrophoresis and immunoelectrophoresis, value in differentiating conditions

Diagnosis, Protozoa

- Minter-Goedbloed, E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 22-30
Trypanosoma cruzi, primary isolation by hemoculture of parasites from naturally infected *Didelphis azarae*, mice (exper.) and acute and chronic infections in humans; low proportion of successful isolations from human chronic infections due probably to lower parasitemia; hemoculture from chronic patients also differed markedly from other hosts in very slow growth-rate obtained which was probably due to continuing activities of humoral and cellular components in blood inoculum

Diagnosis, Protozoa

- Minter-Goedbloed, E.; Minter, D. M.; and Marshall, T. F. de C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 217-225
Trypanosoma cruzi, detection in mice, humans, and *Didelphis azarae*, acute and chronic infections, xenodiagnosis vs. haemoculture, quantitative comparison

Diagnosis, Protozoa

- Molyneux, D. H., 1973, Ann. Soc. Belge Med. Trop., v. 53 (6), 605-618
 Gambian trypanosomiasis, evidence for existence of animal reservoirs of *Trypanosoma brucei gambiense* reviewed; use of modified blood incubation infectivity test for diagnosis of *T. brucei* subsp. suggested; recommendations for long-term study of man and various animal groups as sources of various strains

Diagnosis, Protozoa

- Molyneux, D. H.; and Rafort, J. M., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (3), 335-348

Trypanosoma vespertilionis, morphology of bloodstream forms, sites and morphology of tissue stages (in cysts), morphology and ultrastructure of culture forms, difficulties in differentiating from *T. cruzi*

Diagnosis, Protozoa

- Momen, H.; Chance, M. L.; and Peters, W., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 203-212

Babesia spp., human and animal strains and *Anthemiosoma garnhami*, taxonomic differentiation using biochemical methods (variation in mobility of parasite enzymes on starch gels after electrophoresis, measurement of buoyant densities of DNA)

Diagnosis, Protozoa

- de Moraes, J. A. D.; and Medina, E., 1976, Ann. Soc. Belge Med. Trop., v. 56 (6), 449-458
 amoebic abscess, human hepatic, visualization by tomographic scans after injection of triiodide benzoic acid, useful for diagnosis and treatment evaluation

Diagnosis, Protozoa

- Moralev, L. N.; and Moskalev, V. G., 1973, Parazitologiya, Leningrad, v. 7 (4), 377-378
Lamblia, use of PAS reaction for identification in histological sections of host intestine

Diagnosis, Protozoa

- Morzaria, S. P.; and Brocklesby, D. W., 1977, Ztschr. Parasitenk., v. 52 (3), 241-243
Babesia major vermicules from *Haemaphysalis punctata* haemolymph and *B. bigemina* vermicules from *Boophilus microplus* haemolymph, length as differential diagnostic criterion

Diagnosis, Protozoa

- Mott, K. E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 320 [Letter]
Trypanosoma cruzi, blood cultures using vacuum culture tubes, may be useful tool for parasite isolation in areas endemic for Chagas' disease

Diagnosis, Protozoa

- Mourao, O. G.; and Milio, O. C., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (4), 183-188
Trypanosoma cruzi, method of processing blood cultures for use in diagnosis of chronic phase of Chagas disease

Diagnosis, Protozoa

- Murray, M.; Clifford, D. J.; and McIntyre, W. I. M., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 120-121 [Letter]
 bovine African trypanosomiasis, usefulness of diagnosis by blood buffy coat examination by darkground microscopy, suggestions for planning of epidemiologic studies

Diagnosis, Protozoa

- Muzzio, P. C.; Maffessanti, M.; and Pescarini, L., 1975, Quad. Radiol., v. 40 (2), 121-128
 human lymphatic toxoplasmosis, differential diagnosis using lymphography, clinical case reports

Diagnosis, Protozoa

Naik, S. R.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 43-45

Leishmania donovani, man, infection of nasopharyngeal tissue and lymph nodes as well as visceral infection, clinical presentation appearing to be nasopharyngeal tumor, diagnostic problems discussed, case report: Nalagarh, Himachal Pradesh, India

Diagnosis, Protozoa

Naik, S. R.; Rau, N. R.; and Vinayak, V. K., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 491-492

Giardia lamblia, human, comparative evaluation of diagnostic techniques (examinations of 3 stool samples, jejunal aspirate, and jejunal mucosal impression smears)

Diagnosis, Protozoa

Neal, R. A.; and Miles, R. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 170-176

Trypanosoma cruzi, mice, detection of experimental infections, culture methods vs. xenodiagnosis

Diagnosis, Protozoa

Nerad, T. A.; and Daggett, P. M., 1979, J. Protozool., v. 26 (4), 613-615

Naegleria fowleri, *N. gruberi*, isoenzyme electrophoresis as effective method for separation of pathogenic and nonpathogenic *Naegleria* strains

Diagnosis, Protozoa

Ni, G. V., 1973, Parazitologiya, Leningrad, v. 7 (1), 75-78

leptomonads, differentiation of pathogenic (*Leishmania tropica* major) from non-pathogenic strains by their reaction to increased incubation temperatures in vitro

Diagnosis, Protozoa

Ogino, K.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (3), 116-125

Pneumocystis carinii, identification, evaluation of several staining methods

Diagnosis, Protozoa

Ohmori, Y.; Yamaguchi, T.; and Ohishi, I., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (5), 323-335

Dirofilaria immitis, immature worms, morphology in cross section

Diagnosis, Protozoa

Ou Tim, L.; Segal, I.; and Hodgkinson, H. J., 1979, South African Med. J., v. 55 (5), 179-184

amoebic liver abscess, patients presenting with jaundice, diagnostic problems resulting in delayed therapy often result in fatal complications of hepatic and renal failure

Diagnosis, Protozoa

Palmieri, J. R.; and Sullivan, J. T., 1977, J. Invert. Path., v. 30 (2), 276

Microsporidia, staining technique for location of spores in host tissues, used to locate *Nosema* sp. in *Lymnaea rubiginosa* snails and *Tracheophilus* sp. rediae

Diagnosis, Protozoa

Pandey, N. N.; and Mishra, S. S., 1978, Indian Vet. J., v. 55 (2), 139-143

Babesia bigemina, cow calves (exper.), clinical symptoms as related to percentage of parasitaemia in various stages of disease as basis for timely diagnosis and treatment, highest parasitaemia at peak of fever

Diagnosis, Protozoa

Pena Yanez, A.; et al., 1972, Rev. Clin. Espan., v. 124 (4), 405-412

pulmonary amoebiasis in man without involvement of liver, diagnosis after expectoration of chocolate colored material, successful therapy of emetine and chloroquine: Spain (had resided previously in Algeria)

Diagnosis, Protozoa

Perpignano, G.; Argiolas, N.; and Pintus, A., 1974, Rassegna Med. Sarda, v. 77, n.s., v. 26 (2), 143-167

Entamoeba histolytica, human hepatic abscess, current clinical aspects reviewed, diagnosis by X-ray and scintigraphy, recommendations for therapy

Diagnosis, Protozoa

Peyron, J. P.; Marbot, J. M.; and Pascal-Suisse, P., 1979, Med. Trop., v. 39 (6), 665-673

amoebic liver abscesses, humans, echography in diagnosis, treatment and surveillance, especially useful in tropical areas

Diagnosis, Protozoa

Pifer, L. L.; and Woods, D. R., 1978, Am. J. Clin. Path., v. 69 (4), 472-473 [Letter]

Pneumocystis carinii, value of toluidine blue "O" stain compared to modified Gomori's stain for diagnosis of pneumonitis

Diagnosis, Protozoa

Pintozzi, R. L., 1978, J. Clin. Path., v. 31 (8), 803-805

Pneumocystis carinii cysts, modification of Grocott's methenamine silver nitrate staining for rapid diagnosis

Diagnosis, Protozoa

Pintozzi, R. L.; Blecka, L. J.; and Nanos, S., 1979, Acta Cytol., v. 23 (1), 35-39

Pneumocystis carinii, morphologic identification, staining characteristics of parasite in various stains

Diagnosis, Protozoa

Ponirovskii, E. N., 1975, Parazitologiya, Leningrad, v. 9 (2), 139-141

Leishmania, comparison of 3 methods of identification of strains

Diagnosis, Protozoa

Prasad, B. N.; and Jorgensen, R. J., 1978, v. 17 (1-2), 197-202

Sarcocystis, cattle, isolation and identification using various diagnostic methods, differentiation from *Toxoplasma* with dye-test: Denmark

- Diagnosis, Protozoa
Premvati, G., 1979, J. Trop. Med. and Hyg., v. 82 (5), 105-109
Leishmania donovani-infected mice, correlation of hyperplasia, splenomegaly and hepatomegaly with parasite population, possible application to early diagnosis of human visceral leishmaniasis
- Diagnosis, Protozoa
Quaderi, M. A.; et al., J. Trop. Med. and Hyg., v. 81 (1), 16-19
human hepatic amoebiasis, clinical diagnostic features, treatment trials with tinidazole, 100% cure rate at 2-month follow-up, some side effects: Bangladesh
- Diagnosis, Protozoa
Quintal Aviles, R.; Zavala Velazquez, J.; and Rodriguez Lopez, M., 1975, Rev. Invest. Clin., v. 27 (4), 255-258
Trypanosoma cruzi, diagnostic review of acute and chronic human cases: Yucatan, Mexico
- Diagnosis, Protozoa
Ramachandran, S.; et al., 1979, Trop. Doctor, v. 9 (4), 164-167
amoebiasis, human hepatic abscess, criteria of diagnostic significance and scoring system for making diagnosis: Sri Lanka
- Diagnosis, Protozoa
Reed, J. C.; and Madewell, J. E., 1975, Radiology, v. 116 (1), 1-9
Pneumocystis carinii pneumonia, humans, air bronchogram used in differential diagnosis
- Diagnosis, Protozoa
Rev. Med. Chile, 1978, v. 106 (4), 319-331
Entamoeba histolytica, current status of human amoebiasis (physiopathology, clinical forms, diagnosis, treatment, epidemiology), anniversary presentation at the Academy of Medicine of Chile
- Diagnosis, Protozoa
Rev. Prat., Paris, v. 27 (37), 1977, 2341-2409
Plasmodium spp., issue devoted to current status of human malarias with discussion on: life cycle, geographic distribution, immunopathology, diagnosis, clinical management, treatment and prophylaxis
- Diagnosis, Protozoa
Rodriguez Osorio, M.; et al., 1978, Rev. Iber. Parasitol., v. 38 (3-4), 793-804
Sarcocystis moulei, caprine, comparative study of 3 diagnostic tests, peptic artificial digestion, immunodiffusion, and indirect immunofluorescence
- Diagnosis, Protozoa
Rollinson, D.; Joyner, L. P.; and Norton, C. C., 1979, Parasitology, v. 78 (3), 361-367
Eimeria maxima (Weybridge) and E. maxima (indentata) were distinguished by electrophoretic mobility of phosphoglucosylase, this enzyme was used as marker to detect genetic transfer of methyl benzoate resistance between resistant and sensitive lines of these parasites
- Diagnosis, Protozoa
Rosol, M.; Havel, V.; and Andrys, J., 1973, Sborn. Ved. Praci Lek. Fak. Karlovy Univ. Hradci Kralove, Suppl., v. 15 (2), 141-144
Trichomonas, human, differential diagnosis, discussion of possible involvement in precancerous lesions and carcinomas of the cervix uteri
- Diagnosis, Protozoa
Roumy, G.; et al., 1978, Rev. Franc. Gastro-Enterol. (139), 41-48
human hepatic amoebic abscess, isotope scanning and ultrasonography, combined use for differential diagnostic workup and for therapeutic evaluations
- Diagnosis, Protozoa
Rowecka-Trzebiecka, K.; et al., 1979, Pediat. Polska, v. 54 (7), 687-691
Pneumocystis carinii, infants, pneumonia, pulmonary aspiration biopsy and presence of IgM and IgG in serum confirm diagnosis
- Diagnosis, Protozoa
Russo, A.; et al., 1973, Rassegna Internaz. Clin. e Terap., Napoli, v. 53 (9), 528-535
human lymphatic toxoplasmosis, differential diagnosis, case reports, clinical aspects
- Diagnosis, Protozoa
Rutherford, G. S.; and Uys, C. J., 1978, South African Med. J., v. 53 (18), 716-718
cutaneous leishmaniasis, 54-year-old woman, microscopical findings, ultrastructure of lesion presented to facilitate diagnosis in South West Africa
- Diagnosis, Protozoa
Sapunar, J.; et al., 1979, Bol. Chileno Parasitol., v. 34 (1-2), 36-39
Entamoeba histolytica, 21-year-old female with fulminating colitis, clinical case report; differential diagnosis of diarrheic conditions: Chile
- Diagnosis, Protozoa
Sargeant, P. G.; and Williams, J. E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 164-166
Entamoeba histolytica (14 stocks), E. coli (1 stock), electrophoretic isoenzyme patterns
- Diagnosis, Protozoa
Sargeant, P. G.; and Williams, J. E., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 225-227
pathogenic and non-pathogenic intestinal amoeba of man, all species can easily be distinguished by characteristic electrophoretic isoenzyme patterns
- Diagnosis, Protozoa
Sargeant, P. G.; Williams, J. E.; and Grene, J. D., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 519-521
Entamoeba histolytica, differentiation of invasive and non-invasive forms by isoenzyme electrophoresis
- Diagnosis, Protozoa
Saphie, T. G.; and Allen, D. J., 1978, Health Lab. Sc., v. 15 (4), 235-241
Acanthamoeba culbertsoni extracted from cerebrospinal fluid, surface topography, scanning electron microscopy, possible diagnostic application

- Diagnosis, Protozoa**
 Sheehan, D. J.; et al., 1979, J. Clin. Microbiol., v. 10 (2), 128-133
Entamoeba histolytica, human, diagnosis, comparison of microscopic, cultural, counterimmunoelectrophoresis, and indirect hemagglutination techniques
- Diagnosis, Protozoa**
 Sherkov, S. N.; Leitch, B.; and El Rabie, Y., [1977], Egypt. J. Vet. Sc., v. 13 (1), 1976, 45-51
Sarcosporidia, survey of incidence in domestic animals by examining for cystozoites rather than cysts, distribution by season, age of host, species of animal, and climate: Jordan
- Diagnosis, Protozoa**
 Shkurovich, M.; et al., 1974, Rev. Med. Hosp. Gen., Mexico, v. 37 (4), 215-227
 human hepatic amoebic abscess, diagnosis, ultrasound
- Diagnosis, Protozoa**
 Silard, R.; et al., 1977, Arch. Roumaines Path. Exper. et Microbiol., v. 36 (1), 55-60
E[ntamoeba] histolytica, intrahepatic inoculation in *Cricetus auratus* of human strain associated with *Blastocystis hominis*, liver abscess, diagnosis, results demonstrate the tissue adaptability of *B. hominis* and its potential as a conditioned pathogen
- Diagnosis, Protozoa**
 Sirotzky, L.; et al., 1978, J. Am. Med. Ass., v. 240 (14), 1513-1515
Pneumocystis carinii, case report of recurrent pneumonia in immunocompromised patient, normal chest X-rays complicated diagnosis, bronchial brushing or pulmonary biopsy advised for definitive diagnosis
- Diagnosis, Protozoa**
 Staak, C., 1977, 3. Externe Veterinartagung, Ber. u. Arbeitsergebn. (40), 193-207
 trypanosomiasis, several diagnostic methods evaluated under laboratory and field conditions
- Diagnosis, Protozoa**
 Stoessel, F. R.; and Haberkorn, S. E. M., 1978, Gac. Vet., Buenos Aires (327), v. 40, 24-32
Trichomonas foetus, Aberdeen Angus bulls (exper.), efficiency of different culture media for diagnosis
- Diagnosis, Protozoa**
 Stoskopf, M. K.; and Beier, J., 1979, J. Am. Vet. Med. Ass., v. 175 (9), 944-947
Plasmodium relictum, *P. elongatum* in *Spheniscus demersus*, diagnostic methods evaluated, chloroquine phosphate and primaquine phosphate therapy: Baltimore Zoo
- Diagnosis, Protozoa**
 Suh, M. D.; and Hoyte, H. M. D., 1977, Korean J. Vet. Research, v. 17 (2), 51-61
Babesia bigemina and *B. argentina*, morphological differentiation using smears and tissue sections of splenectomized calf organs (liver, lung, kidney, heart, lymph node, brain)
- Diagnosis, Protozoa**
 Sulaiman, A.; and Gips, C., 1974, Tijdschr. Gastro-enterol., v. 17 (6), 373-382
 identification of gallbladder bile during duodenal intubation, includes information on diagnosis of human lamblasis
- Diagnosis, Protozoa**
 Sulzer, A. J.; et al., 1979, Am. J. Clin. Path., v. 72 (2), 225-229
Toxoplasma gondii, woman (lung tissue), post-mortem diagnosis by electron microscopic fine-structural analysis, case report
- Diagnosis, Protozoa**
 Tadros, W.; and Laarman, J. J., 1978, Proc. K. Nederl. Akad. Wetensch., s. C, Biol. and Med. Sc., v. 81 (4), 469-491
Sarcocystis spp., structure of muscle cyst walls, comparative study, light and electron microscopy, useful but not infallible tool for recognizing different species
- Diagnosis, Protozoa**
 Tedesco, L. F.; Errico, F.; and Del Baglivi, L. P., 1979, Austral. Vet. J., v. 55 (7), 322-324
Tritrichomonas foetus, bulls, diagnosis by direct microscopic examination and by cultural recovery, comparison of 2 methods for collection of preputial secretions, suitability of transport medium
- Diagnosis, Protozoa**
 Thomas, G. E.; Goldsmid, J. M.; and Wicks, A. C. B., 1974, South African Med. J., v. 48 (53), 2219-2220
Giardia lamblia, humans, diagnosis, enterotest duodenal capsule vs. stool examination or jejunal aspirate obtained by jejunal biopsy
- Diagnosis, Protozoa**
 Thong, Y. H.; Ferrante, A.; and Shepherd, C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 207-209
Naegleria fowleri, differentiation from *N. gruberi* by comparison of phagocytic behavior towards baker's yeast
- Diagnosis, Protozoa**
 Tippit, T. S., 1978, Southwest. Vet., v. 31 (2), 97-104
Trypanosoma cruzi in dogs, review of etiology, pathogenesis, disease syndrome, macro- and microscopic findings, clinical features, diagnosis, treatment with Bayer 2502, and public health significance: Texas
- Diagnosis, Protozoa**
 Torres Briones, G.; and Manzano Sierra, C., 1973, Rev. Med., Mexico, v. 12 (2), 149-157
 amoebiasis, children suspected to have invasive infection of the colon, radiologic diagnosis
- Diagnosis, Protozoa**
 Tozer, R. A., 1978, Trop. Doctor, v. 8 (3), 114-118
 bone marrow aspiration, diagnostic technique for *Leishmania donovani* and other blood dyscrasias

Diagnosis, Protozoa

- Ugarte, G.; Apt, W.; and Faiguenbaum, J., 1977, *Rev. Med. Chile*, v. 105 (3), 176-178
Plasmodium vivax infection in man thought to have hepatic amoebiasis because of complaints of jaundice, fever, and hepatomegaly, after blood smears revealed evidence of malaria man was cured with chloroquine and daraprim:
 Chile, had made recent visit to Brazil

Diagnosis, Protozoa

- Van Meirvenne, N.; et al., 1973, *Ann. Soc. Belge Med. Trop.*, v. 53 (2), 109-122
Trypanosoma gambiense, *T. rhodesiense*, detection in human blood using column separation and membrane filtration

Diagnosis, Protozoa

- Van Meirvenne, N.; et al., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 545-549
 gambian and rhodesian sleeping sickness, humans, serological and parasitological diagnostic methods, review

Diagnosis, Protozoa

- Van der Vorst, E.; and Jacobs, F. J., 1978, *Vlaams Diergeneesk. Tijdschr.*, v. 47 (3), 260-266
Nosema apis spores, differential diagnosis in pollen by lugol staining

Diagnosis, Protozoa

- Vessal, K.; et al., 1976, *Radiologe*, v. 16 (1), 38-42
Pneumocystis carinii pneumonia, infants, radiologic diagnosis, evaluation of infection course by radiology and its use as guideline for therapy

Diagnosis, Protozoa

- Viana, R. L.; Rego, A.; and Antunes Dias, F. A., 1974, *South African Med. J.*, v. 48 (3), 96-100
 amoebiasis, human hepatic abscess, scanning and selective hepatic arteriography for diagnosis and differential diagnosis

Diagnosis, Protozoa

- Vickerman, K., 1978, *Tr. Am. Micr. Soc.*, v. 97 (4), 485-502
 trypanoplasm-like flagellates, free-living, possibly mistakenly identified as trypanosomes and *Trichomonas*, potential cause of confusion in diagnosis of human and animal diseases

Diagnosis, Protozoa

- Voelker, F. A.; et al., 1978, *Vet. Path.*, v. 15 (1), 40-48
Kudoa [sp.] in *Chaetodon* (skeletal muscle), ultrastructure, light and electron microscopy, differential diagnosis

Diagnosis, Protozoa

- Walker, A. R.; et al., 1979, *Trop. Animal Health and Prod.*, v. 11 (1), 21-26
Theileria spp., rapid quantitative assessment of infection in ticks, simplified method for methyl green pyronin staining of salivary glands

Diagnosis, Protozoa

- Woo, P. T. K., 1979, *Exper. Parasitol.*, v. 47 (1), 36-48
Trypanoplasma salmositica, successful in vitro culture and subpassage, course of infection in *Salmo gairdneri* (exper.), clinical signs (anemia, exophthalmia, abdominal distension with ascites, splenomegaly), diagnosis by wet mount examination more sensitive than hematocrit centrifuge technique, evidence of possible antigenic variation

Diagnosis, Protozoa

- Zillmann, U.; and Mehlitz, D., 1979, *Tropenmed. u. Parasitol.*, v. 30 (2), 244-248
Trypanosoma (Trypanozoon) [sp.] in *Gallus gallus* var. domesticus (nat. and exper.), diagnosed from morphology and infectivity in *Mastomys natalensis* (exper.), significance for epizootiology and epidemiology of trypanosomiasis: Ivory Coast

Diagnosis, Trematoda

- Albaret, J. L.; and Leger, N., 1978, *Ann. Parasitol.*, v. 53 (6), 617-622
Schistosoma mansoni, miracidial chetotoxic index, changes during adaptation of human strain to white mice, use in determining human vs. murine character of natural infections in Guadeloupe, possibility of murine strains infecting humans

Diagnosis, Trematoda

- Barrett-Connor, E., 1972, *South. Med. J.*, v. 65 (1), 86-90
 fluke infections, human, geographic distribution, clinical aspects, need for differential diagnostic considerations in travellers, immigrants, and military personnel

Diagnosis, Trematoda

- Bayssade-Dufour, C., 1977, *Compt. Rend. Acad. Sc.*, Paris, v. 285, s. D, Sc. Nat., (16), 1511-1513
Schistosoma mansoni, cercarial chaetotaxy, comparison of 14 strains from 4 hosts (man, *Erythrocebus patas*, white mice, and wild rats), variation allows differentiation of strains of human vs. murine origin during epidemiological investigations

Diagnosis, Trematoda

- Bayssade-Dufour, C.; et al., 1978, *Ann. Parasitol.*, v. 53 (6), 595-605
Diplodiscus subclavatus, *D. fischthalicus*, cercariae, comparison of excretory system and chaetotaxy

Diagnosis, Trematoda

- Bayssade-Dufour, C.; and Bourgat, R., 1975, *Bull. Mus. National Hist. Nat.*, Paris, 3. s. (313), Zool. (220), 853-859
Mesocoelium monodi, chaetotaxy of cercaria and metacercaria: environs de Lome, Togo

Diagnosis, Trematoda

- Becquet, R., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 435-442
 intestinal bilharziasis, human, diagnosis, fecal examination, rectal biopsy

Diagnosis, Trematoda

- Bertrand, E.; et al., 1971, *Semaine Hop.* Paris, v. 47 (48), 2729-2735
S[chistosoma] *mansoni*, *S. haematobium*, humans, diagnostic aspects of rectal pathology as observed via sigmoidoscopy

Diagnosis, Trematoda

- Bouvry, M.; et al., 1974, *Rev. Med. Cote Ivoire* (24), v. 10, 2. trimestre, 9-12
S[chistosoma] *mansoni*, human, evaluation of laparoscopy for diagnosis of hepatic schistosomiasis, recommended as adjunct to standard methods

Diagnosis, Trematoda

- Cechinel, Y. M. N.; and Owen, J. S., 1978, *Rev. Brasil. Biol.*, v. 38 (2), 339-343
Schistosoma mansoni, patients with hepatointestinal, compensated hepatosplenic, and decompensated hepatosplenic forms, plasma free cholesterol and cholesterol ester concentrations

Diagnosis, Trematoda

- Cocheton, J. J.; and Poulet, J., 1972, *Semaine Hop.* Paris, v. 48 (24), 1709-1717
Schistosoma haematobium, humans, genitourinary infections, radiologic diagnostic methods, case reports: African immigrant workers in France

Diagnosis, Trematoda

- Coura, J. R.; and Conceicao, M. J., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (3), 153-158
S[chistosoma] *mansoni*, humans, comparative study of Lutz sedimentation technique, Kato thick-smear and Simoes Barbosa egg-counting technique for diagnosis; Kato method found to be simple, inexpensive and of the highest sensitivity of the 3 tests

Diagnosis, Trematoda

- Dubey, J. P.; et al., 1978, *J. Am. Vet. Med. Ass.*, v. 173 (6), 734-742
Paragonimus kellicotti, cats (exper.), clinical signs, clinicopathologic data, radiologic findings, fecal diagnosis, necropsy findings

Diagnosis, Trematoda

- El-Sewedy, S. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 525-528
 bilharziasis, human, α -esterase activity in serum and urine, latter recommended as screening test for bilharzial bladder cancer

Diagnosis, Trematoda

- Ergens, R.; and Dulmaa, A., 1971, *Folia Parasitol.*, v. 18 (1), 33-39
Ancylostoides spp., reliable criterion for identification is shape of individual chitinous parts of haptor, and of copulatory organ

Diagnosis, Trematoda

- Fischthal, J. H., 1978, *Zool. Scripta*, v. 7 (1), 13-18
 digenetic trematodes of marine fishes, allometric growth, diagnostic usefulness in taxonomic studies: off coast of Belize

Diagnosis, Trematoda

- Frost, O., 1975, *South African Med. J.*, v. 49 (30), 1201-1203
 bilharzia, humans, incidence of Fallopian tube infections, possible role as etiologic factor in ectopic pregnancy and salpingitis, tubal infection does not present typical clinical picture for diagnosis

Diagnosis, Trematoda

- Galvez Rodriguez, A.; et al., 1976, *Rev. Cubana Med.*, v. 15 (1), 7-12
 human digestive tract parasites, diagnostic value of analysis of biliary drainage for evidence of gastrointestinal and biliary tract infections

Diagnosis, Trematoda

- al-Ghorab, M. M.; et al., 1978, *Urology*, v. 11 (3), 303-305
 schistosomiasis, human, bilharzial contracted bladder, radiological findings, calcifications

Diagnosis, Trematoda

- Godfrey, D. G., 1978, *Nature*, London (5664), v. 273, 600-604
 identification of economically important parasites (use of anatomical, biochemical, and behavioral tests), brief review

Diagnosis, Trematoda

- Goldenberg, S.; et al., 1973, *Rev. Paul. Med.*, v. 81 (5), 287-300
 human hepatosplenic schistosomiasis, radiographic diagnosis of gastric varices resulting from portal hypertension, interpretation of contrast films of the stomach

Diagnosis, Trematoda

- Goldenberg, S.; et al., 1973, *Rev. Paul. Med.*, v. 81 (6), 349-356
 human hepatosplenic schistosomiasis *mansoni*, radiographic diagnosis of gastric varices resulting from portal hypertension, interpretation of splenoportography and gastroscopy, exploratory surgery

Diagnosis, Trematoda

- Goldenberg, S.; et al., 1973, *Rev. Paul. Med.*, v. 82 (1), 33-46
 human hepatosplenic schistosomiasis *mansoni*, radiographic diagnosis of gastric varices resulting from portal hypertension

Diagnosis, Trematoda

- Goldsmid, J. M.; and Rogers, S., 1977, *South African Med. J.*, v. 51 (2), 29-33
 schistosomiasis, humans, criteria used for diagnosis in endemic bilharzial areas (egg recovery, rectal biopsy, eosinophilia, hepatomegaly, serologic and skin test), rational proposal for treatment

Diagnosis, Trematoda

- Hidayatalla, A.; Abdel Rahman, I.; and Omer, A. H. S., 1972, *Sudan Med. J.*, v. 10 (1), 45-53
 Bilharzia *mansoni*, human hepatic fibrosis, hepatic scanning reveals features of diagnostic and prognostic significance

Diagnosis, Trematoda

- Huemmer, N.; and Braun, H., 1978, *Roentgen-Berichte*, v. 7 (2), 191-196
Schistosoma haematobium of human urinary tract, diagnostic procedures, typical changes seen on X-ray and cystoscopy, case report

Diagnosis, Trematoda

- Huggins, D., 1971, *Rev. Soc. Brasil. Med. Trop.*, v. 5 (6), 333-347
Schistosoma mansoni, human hepatosplenic form, comparison of rectal biopsy and stool examinations for diagnosis

Diagnosis, Trematoda

- Iskova, N. I., 1978, Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool. (6), 59-63
Cyclocoelum mutabile, C. obscurum, morphological characteristics, separable species

Diagnosis, Trematoda

- Iwamura, K., 1977, Therapiewoche, v. 27 (38), 6618-6638
helminth infections of liver, humans, diagnosis, pathology, extensive clinical review

Diagnosis, Trematoda

- Kan, S. K. P.; Kay, R. W. W.; and Thomas, I., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 97-99
Schistosoma japonicum-like ova, humans, incidental histological findings in liver and rectal biopsies, Filipino and Chinese immigrants to Sabah, Malaysia

Diagnosis, Trematoda

- Karnaukhov, V. K., 1979, Sovet. Med. (5), 86-90
helminthiasis, humans, typical errors in diagnosing and treating acute and chronic infections, especially hormone administration prior to diagnosis, case reports, management

Diagnosis, Trematoda

- Keller, H., 1978, Schweiz. Arch. Tierh., v. 120 (4), 189-193
Dicrocoelium dendriticum, F[asciola] hepatica, cattle, glutamate-dehydrogenase and L- γ -glutamyl-transferase activities in sera, compared with cattle not showing macroscopic visceral lesions

Diagnosis, Trematoda

- Khotenovskii, I. A., 1975, Parazitologiya, Leningrad, v. 9 (1), 17-27
Diplozoon spp., morphology of eggs and larvae, technique for hatching larvae and their impregnation by silver, distribution of ciliated cells and sensillae in larvae, possible use of egg and larval characters in species differentiation

Diagnosis, Trematoda

- Klimenko, V. V.; and Velichko, I. V., 1972, Parazitologiya, Leningrad, v. 6 (3), 291-296
Calicophoron calicophorum, Liorchis scotiae, Gastrothylax crumenifer, disc electrophoresis on polyacrylamide gel, characteristic differences in protein spectrum, possible use in taxonomy

Diagnosis, Trematoda

- Knos, G. B.; and Short, R. B., 1979, J. Parasitol., v. 65 (3), 350-356
Schistosomatium douthitti, cercariae, argentine papillae (numbers, types, distribution patterns), degree of variation, sex-related differences, possible use in identification and systematics

Diagnosis, Trematoda

- Li, Y. H.; et al., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 273-280
schistosomiasis, recent advances in fecal examination technique, rectal biopsy, intra-dermal test, and serological reactions, review

Diagnosis, Trematoda

- Mahon, R. J.; and Shiff, C. J., 1978, J. Parasitol., v. 64 (2), 372-373
Schistosoma haematobium, S. mattheei, differentiation of cercariae emerging from Bulinus snails by separation of phosphoglucosyltransferase bands by starch gel electrophoresis

Diagnosis, Trematoda

- Nalobin, A. V.; and Mel'nikov, V. I., 1977, Sovet. Med. (12), 103-105
opisthorchiasis, humans, differential diagnosis

Diagnosis, Trematoda

- Niewiadomska, K., 1970, Acta Parasitol. Polon., v. 18 (13-26), 277-289
Strigeidida, analysis of criteria for generic differentiation at the stage of cercaria, metacercaria, and adult

Diagnosis, Trematoda

- Odening, K.; Bockhardt, I.; and Graefner, G., 1979, Zool. Jahrb., Jena, Abt. Syst., v. 106 (2), 214-241
Paramphistomum spp., morphology and development of larval stages, variation and species differentiation, intermediate host specificity

Diagnosis, Trematoda

- Owczarek, L., 1979, Bull. Inst. Maritime and Trop. Med. Gdynia, v. 30 (3), 205-216
intestinal schistosomiasis, humans, positive reactions to tuberculin and other skin tests, diagnostic potential: Zaire

Diagnosis, Trematoda

- Palmieri, J. R., [1978], Great Basin Nat., v. 37 (4), 1977, 481-488
Posthodiplostomum minimum, host induced morphological variations (testes number, size, and shape; ovary measurements and position; vitelline gland distribution; egg size); due to lack of host specificity as well as overlap of egg and body sizes of species of Posthodiplostomum, it is apparent that several reported species are not valid

Diagnosis, Trematoda

- Pasticier, A.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 389-393
urinary bilharziasis, African workers living in Paris, 350 cases, diagnosis

Diagnosis, Trematoda

- Phillips, J. F.; et al., 1975, Radiology, v. 114 (1), 31-37
human schistosomiasis, radiology, evaluation of patients preoperatively and assessment of pathologic changes in advanced stages of infection

Diagnosis, Trematoda

- Polderman, A. M.; and Deelder, A. M., 1977, Acta Leidensia, v. 45, 21-29
Schistosoma mansoni, humans, fecal examination compared with serological techniques (ELISA, defined antigen substrate spheres, indirect fluorescent antibody, indirect haemagglutination), results show that serological tests lack in specificity and sensitivity: Ethiopia

Diagnosis, Trematoda

- Ramos, S. F., 1973, Rev. Cien. Med., Univ. Lourenco Marques, s. A, v. 6 (2), 187-197
Schistosoma haematobium, survey of cadavers for evidence of latent symptomless infection, cutaneous localization of eggs varied with sex and age of hosts

Diagnosis, Trematoda

- Richard, J.; and Jourdan, J., 1978, Ann. Parasitol., v. 53 (6), 607-615
Microphallus gracilis, *Maritrema pyrenaica*, cercariae, comparison of chetotaxy, *Microphallus* and *Maritrema* can be separated on this basis: Fenouillet, Pyrenees-Orientales

Diagnosis, Trematoda

- Ross, G. C.; Southgate, V. R.; and Knowles, R. J., 1978, Ztschr. Parasitenk., v. 57 (1), 49-56
Schistosoma bovis strains, *S. mattheei*, *S. margrebowiei*, *S. leiperi*, isoenzymes compared by isoelectric focusing, technique for further studies of inter- and intraspecific relationships

Diagnosis, Trematoda

- Rousset, J. J.; Pasticier, A.; and Menager, C., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 395-401
 urinary bilharziasis, human, diagnosis by rectal mucosal biopsy

Diagnosis, Trematoda

- Rowlands, D. ap T.; and Clampitt, R. B., 1979, Vet. Parasitol., v. 5 (2-3), 155-175
Fasciola hepatica, sheep, cattle (both exper.), bodyweight, blood and plasma analyses, emphasis on use of plasma enzyme levels to detect and monitor liver damage and to assess efficacy of diamphenethide against immature flukes

Diagnosis, Trematoda

- Ruiz-Tiben, E.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 230-236
Schistosoma mansoni, human, 6 serologic tests evaluated by comparing their results with those of sensitive stool examination method, relationship between intensity of infection and sensitivity and specificity of serologic tests: Parcelas de Boqueron, Puerto Rico

Diagnosis, Trematoda

- Sadigursky, C. A.; de Araujo, I. M.; and Rodrigues, L. E. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 103-108
Schistosoma mansoni, evaluation of lactic dehydrogenase activity and hepatic isoenzymes is not statistically reliable for diagnosis or follow-up of patients with hepatic lesions

Diagnosis, Trematoda

- Santos Tome, R.; and Lomba Viana, R., 1974, Rev. Cien. Med., Univ. Lourenco Marques, s. A, v. 7 (2), 297-301
 schistosomal hepatic fibrosis with associated esophageal varices, human, comparative diagnosis using esophageal X-ray, esophagoscopy and splenopography, combined use of all methods gave best results

Diagnosis, Trematoda

- Schneider, J.; and Fripp, P. J., 1977, South African Med. J., v. 51 (16), 536-540
 bilharziasis, humans, diagnosis, classical and atypical manifestations

Diagnosis, Trematoda

- Sey, O., 1979, Acta Vet., Budapest, v. 27 (1-2), 1977-1979, 115-130
Paramphistomum daubneyi, morphology, life cycle, prepatent period, geographic distribution and differences between *P. daubneyi* and *P. microbothrium* discussed: Pecs abattoir

Diagnosis, Trematoda

- Szczygiel, B., 1973, Przegl. Lek., v. 30 (9), 759-762
Schistosoma haematobium, human genital organs, diagnosis and assessment of infections and calcifications using radiology

Diagnosis, Trematoda

- Tulloch, G. S.; et al., 1977, Tr. Am. Micr. Soc., v. 96 (1), 41-47
Schistosoma mattheei, surface structures of integument suggest basic adaptations for clasping of male and female schistosomes and for parasite attachment to host, scanning electron microscopy; taxonomic implications

Diagnosis, Trematoda

- Van Ros, G., 1973, Rev. Franc. Gastro-Enterol. (89), 35-50
 human intestinal helminths, differential diagnosis

Diagnosis, Trematoda

- Volkmer, K. J., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 535-543
Paragonimus uterobilateralis, humans, clinical aspects, symptoms, diagnosis by X-ray, sputum examination, or indirect hemagglutination: East-Nigeria

Diagnosis, Trematoda

- Volkmer, K. J.; and Braband, H., 1975, ROEFO, v. 122 (3), 265-267
Paragonimus westermani, humans, radiologic pulmonary changes, differentiation from tuberculosis

Diagnosis, Trematoda

- Widman, A.; et al., 1973, Rev. Hosp. Clin., S. Paulo, v. 28 (4), 177-187
Schistosoma mansoni, humans with portal hypertension resulting from hepatosplenic involvement, comparison of diagnostic X-ray films done arterially with those done during spleno-renal anastomosis

Diagnosis, Trematoda

- Wilkins, H. A.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 74-80
Schistosoma haematobium, human, intensity and prevalence of proteinuria and hematuria determined using urinalysis reagent strips, close relationship to intensity of infection suggests these parameters may have value as indications for chemotherapy, good prognosis in subjects with heavy proteinuria suggests that this urinary protein is likely to originate from lesions in lower renal tract rather than kidney: The Gambia; Egypt

Diagnosis, Trematoda

- Wright, C. A.; Southgate, V. R.; and Ross, G. C., 1979, Internat. J. Parasitol., v. 9 (6), 523-528
Schistosoma intercalatum, Lower Guinea vs. Zaire strains, enzyme analysis by isoelectric focusing

Diagnosis, Trematoda

Zigan'shin, R. V.; et al., 1977, Sovet. Med. (5), 93-96

opisthorchosis, humans, diagnosis, surgical management, importance of patient history in differentiating from other surgical emergencies, case reports

Diagnosis, Xenodiagnosis

Barretto, A. C.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (4), 183-189

Trypanosoma cruzi, man, xenodiagnosis, significantly more *Dipetalogaster maximus* showed infection than did *Triatoma infestans* in comparative trials

Diagnosis, Xenodiagnosis

Cuba Cuba, C. A.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (3), 145-151

Trypanosoma cruzi, human, xenodiagnosis, *Dipetalogaster maximus* vs. *Triatoma infestans*

Diagnosis, Xenodiagnosis

Cuba, C. C.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 74 (5), 524-527

Trypanosoma cruzi, xenodiagnosis of patients with serologically detectable infection using third-instar *Dipetalogaster maximus*, more efficient than first instar of same species or third-instar *Triatoma infestans*

Diagnosis, Xenodiagnosis

Hoff, R.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 461-466

Trypanosoma cruzi, rural population, age-specific prevalence rates of parasitemia (detected by blood cultures and xenodiagnosis) vs. seroreactivity (measured by complement fixation and indirect immunofluorescence tests): northeast Brazil

Diagnosis, Xenodiagnosis

Marsden, P. D.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 649-652

first instar *Dipetalogaster maximus* as effective as 3rd instar *Triatoma infestans* used in xenodiagnosis of patients with chronic *Trypanosoma cruzi*, comparative experiments using pool technique for examination

Diagnosis, Xenodiagnosis

Minter, D. M.; Minter-Goedbloed, E.; and Marshall, T. F. de C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 84-91

Trypanosoma cruzi, comparative xenodiagnosis using 3 species of triatomines and materials from natural and experimental infections of man and animals; results show that interspecific differences of bloodmeal size and intrinsic differences in susceptibility to infection between species of triatomines are limiting factors for standardization and interpretation of results

Diagnosis, Xenodiagnosis

Minter-Goedbloed, E.; Minter, D. M.; and Marshall, T. F. de C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 217-225

Trypanosoma cruzi, detection in mice, humans, and *Didelphis azarae*, acute and chronic infections, xenodiagnosis vs. haemoculture, quantitative comparison

Diagnosis, Xenodiagnosis

Neal, R. A.; and Miles, R. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 170-176

Trypanosoma cruzi, mice, detection of experimental infections, culture methods vs. xenodiagnosis

Diagnosis, Xenodiagnosis

Neal, R. A.; and Miles, R. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 177-181

Trypanosoma cruzi, xenodiagnosis, diagnostic parameters, numbers of trypomastigotes required to be ingested by triatomid bug to give rise to detectable infection

Diagnosis, Xenodiagnosis

Neves, D. P.; and Carvalho, A. L. M., 1972, Rev. Patol. Trop., v. 1 (2), 277-281

Trypanosoma cruzi-infected *Triatoma infestans* and *T. vitticeps*, use for xenodiagnostic purposes compared, *T. vitticeps* thought to be poor subject for actual use in diagnosis of human infections

Diagnosis, Xenodiagnosis

Perlowagora-Szumlewicz, A., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (3), 139-150

Trypanosoma cruzi-infected *Triatoma*, *Rhodnius*, *Panstrongylus*, vector species and stage interaction in feeding behavior, application to standardization and efficacy of xenodiagnostic procedures

Diagnosis, Xenodiagnosis

Salgado, A. de A.; Mayrink, W.; and Dias, J. C. P., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (1), 36-40

Chagas disease, xenodiagnosis and complement fixation test compared: district of Bambui, Minas Gerais, Brazil

Diagnosis, Xenodiagnosis

Shelley, A. J.; et al., 1979, J. Med. Entom., v. 16 (1), 48-51

Onchocerca volvulus, human, concentration of microfilariae by Simulium sanguineum during feeding, fly gut squash method compared with skin snips for mapping parasite distribution in skin or for diagnosis: Amazonas, Brazil

Diapause. See Life cycle.

Diaphragm

Becker, P. F. L.; et al., 1979, Rev. Paul. Med., v. 93 (5-6), 91-96

Chagas disease, comparative study of weight and metric features of diaphragm between chagasic (hypertrophic) and nonchagasic cardiopathies, autopsy study of 50 males: Brasil

Diarrhea

Blanco, C.; and Aznar, E., 1977, Rev. Cubana Cien. Vet., v. 8 (1), 37-46

parasites and other agents, diarrhea, calves, clinical aspects, etiology: Cuba

Diarrhea

Bueno, L.; Ruckebusch, Y.; and Dorchies, Ph., 1979, Vet. Parasitol., v. 5 (2-3), 253-260

strongyle-infected ponies (nat. and exper.), disturbances of digestive motility, effect of mebendazole treatment

Diarrhea

Echeverria, P.; and Cross, J. H., 1977, South-east Asian J. Trop. Med. and Pub. Health, v. 8 (4), 476-479

Giardia lamblia, *Entamoeba* spp., *Endolimax nana*, study of American college students who had had high incidence of diarrheal disease while traveling in the Orient, findings suggest that *G. lamblia* and *Entamoeba histolytica* should be considered in differential diagnosis of gastrointestinal disease of travellers to the Orient

Diarrhea

- Guerrant, R. L., 1977, Current Concepts Infect. Dis., 211-230
Entamoeba histolytica, *Giardia lamblia*, diarrhea, prevention and therapy, review

Diarrhea

- Licois, D.; Coudert, P.; and Mongin, P., 1978, Ann. Recherches Vet., v. 9 (1), 1-10
Eimeria intestinalis, *E. pellerdyi*, rabbits (exper.), changes in water metabolism in diarrhoeic hosts

Diarrhea

- Lopez-Brea, M.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 600 [Letter]
Giardia lamblia infection should be sought in children with bronchial asthma or chronic diarrhea

Diarrhea

- Moon, H. W.; et al., 1978, J. Am. Vet. Med. Ass., v. 173 (5, pt. 2), 577-583
 cryptosporidia and *Eimeria* found among other agents in newborn calves that had naturally occurring diarrheal disease: Iowa

Diarrhea

- Oduye, O. O.; and Bobade, P. A., 1979, J. Small Animal Practice, v. 20 (3), 181-184
Isospora canis, kennelled dogs, outbreak of haemorrhagic diarrhoea, sulphadimidine treatment

Diarrhea

- Pawlowski, Z.; and Kociecka, W., 1979, Polski Tygod. Lekar., v. 34 (47), 1853-1856
 tourist diarrhea of parasitic and bacterial origins, clinical review

Diarrhea

- Pohlenz, J.; et al., 1978, Vet. Path., v. 15 (3), 417-427
Cryptosporidium sp., calves (free in lumen and attached to epithelium of ileum), life cycle, morphology, pathology, diarrhea, transmission and scanning electron microscopy

Diarrhea

- Ranta, J. M., 1978, West. Veterinarian, v. 16 (3), 15-19
 differential diagnosis of acute diarrheal disease of foals

Diarrhea

- Rihal, R., 1979, Bull. G.T.V. (3), 23-26
 ostertagiasis, oesophagostomiasis, and other factors in chronic diarrhea of cattle: Normandy

Diarrhea

- Sangster, L. T.; et al., 1978, Vet. Med. and Small Animal Clin., v. 73 (10), 1317-1319
 coccidiosis, baby pigs, cause of scours, clinical and pathologic features, treatment with amprolium: southern Georgia

Diarrhea

- Sangster, L. T.; Seibold, H. R.; and Mitchell, F. E., 1976, Proc. 19. Ann. Meet., Am. Ass. Vet. Lab. Diagn., 51-55
 Coccidia, suckling pigs 5-14 days old (intestines), diarrhea, histopathology: southern Georgia; northern Florida

Diarrhea

- Sapunar, J.; et al., 1979, Bol. Chileno Parasitol., v. 34 (1-2), 36-39
Entamoeba histolytica, 21-year-old female with fulminating colitis, clinical case report; differential diagnosis of diarrheic conditions: Chile

Diarrhea

- Stuart, B. P.; and Lindsay, D., 1979, J. Am. Vet. Med. Ass., v. 175 (4), 328-329
Isospora suis, baby pigs (nat. and exper.), clinical disease

Diarrhea

- Tomkins, A. M., 1979, Trop. Doctor, v. 9 (1), 21-24
 role of intestinal parasites in human diarrhea and malnutrition: mechanisms of diarrhea, malabsorption, pathology and clinical symptoms, control

Diarrhea

- Tudor, R. B., 1978, N. England J. Med., v. 299 (26), 1471-1472 [Letter]
Giardia lamblia, 8 1/2-year-old boy, cause of exercise-induced diarrhea

Diet and nutrition. [See also Vitamins]

Diet and nutrition, Host

- Ajayi, S. A.; Wilson, A. J.; and Campbell, R. S. F., 1978, Research Vet. Sc., v. 25 (1), 76-81
Anaplasma marginale, Brahman-cross steers (exper.), maintained on two nutritional planes, clinico-pathological studies

Diet and nutrition, Host

- Akpom, C. A., 1978, Trop. and Geogr. Med., v. 30 (2), 219-225
Schistosoma mansoni, mice, oogram as sensitive method of assessing effect of host malnutrition on parasite

Diet and nutrition, Host

- Armstrong, E., 1978, J. Invert. Path., v. 31 (3), 303-306
Nosema whitei-infected *Tribolium castaneum*, growth and mortality when fed vitamin B-complete vs. -deficient diets

Diet and nutrition, Host

- Armstrong, E., 1979, Ztschr. Parasitenk., v. 59 (1), 27-29
Nosema whitei-infected *Tribolium castaneum*, relationship between body weight gains and food consumption

Diet and nutrition, Host

- Becker, W.; and Lueth, W., 1977, Ztschr. Parasitenk., v. 53 (1), 109-113
Schistosoma mansoni-infected *Biomphalaria glabrata*, ketone body metabolism as compared with that of starved snails

Diet and nutrition, Host

- Berry, C. I.; and Dargie, J. D., 1978, Vet. Parasitol., v. 4 (4), 327-339
Fasciola hepatica, sheep (exper.), pathophysiology: influence of dietary protein and iron on erythrokinetics

Diet and nutrition, Host

Borgsteede, F. H. M.; and Hendriks, J., 1978, Tijdschr. Diergeneesk., v. 103 (8), 417-421
Ostertagia ostertagi, calves (exper.), various diets, no effect on establishment, growth and maturation of parasites

Diet and nutrition, Host

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1978, Tropenmed. u. Parasitol., v. 29 (3), 253-268
 polyparasitism, humans, epidemiology, assessment of combined effects of multiple infections on an individual's state of health, comparative analysis of field data obtained from several tropical villages

Diet and nutrition, Host

Cargill, C. F.; and Dobson, K. J., 1979, Vet. Rec., v. 104 (2), 33-36
Sarcoptes scabiei var. suis, growing pigs housed and fed under optimal and sub-optimal conditions of management, effect of experimental infections on growth rates and feed conversion efficiencies, concluded that loss of productivity is closely related to intensity of hypersensitivity reaction

Diet and nutrition, Host

Castro, G. A.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 500-507
Trichinella spiralis-infected rats, inadequate oral food intake rather than changes in basal metabolism or intestinal pathophysiology accounts for weight loss during intestinal phase of infection

Diet and nutrition, Host

Coutinho, E.; et al., 1972, Rev. Soc. Brasil. Med. Trop., v. 6 (4), 211-236
Schistosoma mansoni, nutritional study including clinical and anthropometric measurements of infected persons living in endemic area, preliminary results inconclusive: northeast Brazil

Diet and nutrition, Host

Crompton, D. W. T.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 195-197
Nippostrongylus brasiliensis infections in protein-deficient rats have important effects on pathophysiological changes usually ascribed to nature of diet, significant hematologic differences and changes in protein distribution as compared to uninfected rats fed ad lib or pair-fed on same protein-deficient diet

Diet and nutrition, Host

Dargie, J. D.; and Berry, C. I., 1979, Internat. J. Parasitol., v. 9 (1), 17-25
Fasciola hepatica, sheep, development of hypoalbuminemia during course of primary infection, accompanying changes in albumin metabolism, influence of protein intake

Diet and nutrition, Host

Dargie, J. D.; Berry, C. I.; and Parkins, J. J., 1979, Research Vet. Sc., v. 26 (3), 289-295
Fasciola hepatica, sheep (exper.) given hay or hay plus pelleted supplement, feed intake and digestibility, body weight and nitrogen balance

Diet and nutrition, Host

Darip, M. D.; Sirisinha, S.; and Lamb, A. J., 1979, Proc. Soc. Exper. Biol. and Med., v. 161 (4), 600-604
Angiostrongylus cantonensis, vitamin A-deficient rats, reduced non-specific local resistance at site of entry, reduced specific immunity to reinfection

Diet and nutrition, Host

Davydov, O. N., 1978, Gidrobiol. Zhurnal, v. 14 (4), 70-77
Bothriocephalus gowkongensis in cyprinid fishes, growth, development, and fertility in relation to temperature, host age and diet, and intensity of invasion

Diet and nutrition, Host

Dimitrov, G.; Kuncheva, K.; and Georgiev, B., 1978, Vet. Med. Nauki, v. 15 (6), 92-100
Fasciola hepatica, sheep (exper.) on diets with 2 different levels of protein content, serum protein levels, numbers of worms established and reaching maturity

Diet and nutrition, Host

Duncombe, V. M.; et al., 1979, Am. J. Clin. Nutrition, v. 32 (3), 553-558
Nippostrongylus brasiliensis, rats (exper.), effect of iron and protein deficiency on acquired resistance to reinfection, results demonstrate that this deficiency profoundly alters host/helminth relationship and enhances parasite survival and propagation, suggested that anthelmintic programs be accompanied by nutritional supplementation

Diet and nutrition, Host

Eckman, J. R.; et al., 1976, Tr. Ass. Am. Physicians, v. 89, 105-115
Plasmodium berghei-infected mice (exper.), vitamin E deficiency moderates severity of infection since premature, oxidant-induced hemolysis of infected erythrocytes prevents orderly parasite maturation, restoration of susceptibility to malaria by vitamin E supplementation, observations provide basis for selective advantage of G-6-PD deficiency in areas of endemic malaria

Diet and nutrition, Host

Eddy, S. B.; and Lankester, M. W., 1978, J. Fish. Research Bd. Canada, v. 35 (11), 1488-1491
Cystidicola cristivomeri, presence in *Salvelinus alpinus* (swim bladder) as indicator of char feeding habits and as possible means of demonstrating that some char remain in lake for extended periods rather than migrating regularly to sea: Stanwell-Fletcher Lake, Somerset Island, N.W.T.

Diet and nutrition, Host

Euzeby, J., 1977, Rev. Med. Vet., Toulouse, v. 128 (12), 1589-1625
 gastrointestinal helminths, cattle breeding, therapeutic and prophylactic control, nutrition and selection of resistant strains of cattle, extensive review: west Europe

- Diet and nutrition, Host
Evans, N. A., 1978, J. Zool., London, v. 184 (2), 143-153
Asymphyllodora kubanicum, occurrence in Bithynia tentaculata (intermediate host) and Rutilus rutilus (intestine) (definitive host), seasonal variation, age of definitive host; annual cycle of occurrence and maturation in roach due primarily to host feeding habits and water temperature: Worcester-Birmingham canal 1 km south of Stoke Works, Bromsgrove
- Diet and nutrition, Host
Farquhar, A. S.; Anthony, W. B.; and Ernst, J. V., 1979, J. Animal Sc., v. 49 (5), 1331-1336
Eimeria bovis oocysts in manure-blended diet, adequate ensiling prevents sporulation
- Diet and nutrition, Host
Fayer, R.; and Lynch, G. P., 1979, Parasitology, v. 79 (5), 325-336
Sarcocystis cruzi-infected calves (exper.), pathophysiological changes in urine and blood, several specific effects beyond those induced by nutritional stress
- Diet and nutrition, Host
Freij, L.; et al., 1979, Am. J. Clin. Nutrition, v. 32 (7), 1545-1553
ascariasis, children, treatment of mild infections produced no evidence of improved intestinal function or nutritional status, and had no impact on anthropometric measures: Addis Ababa, Ethiopia
- Diet and nutrition, Host
Fromunda, V.; and Popescu, S., 1978, Rev. Crest. Animalelor, v. 28 (11), 38-42
correlations between nutrition and parasitism, brief review
- Diet and nutrition, Host
Gateff, C.; Lemarinier, G.; and Labusquiere, R., 1972, Ann. Soc. Belge Med. Trop., v. 52 (2), 103-112
intestinal helminths, African schoolchildren, systematic thiabendazole therapy over 8-month period, increased weight gains with cost of therapy less than if given nutritional supplements, favorable impact on epidemiology: Yaounde, Cameroun
- Diet and nutrition, Host
Gingrich, R. E., 1979, J. Parasitol., v. 65 (2), 288-292
Cuterebra fontinella, susceptibility of Peromyscus leucopus in relation to host age, dietary levels of vitamin A, and previous infestation history
- Diet and nutrition, Host
Gujral, S.; and Chaudhry, A., 1977, Indian J. Nutrition and Diet., v. 14 (11), 341-344
human parasites, necessity of fecal examination and deworming for maximum effect of supplementary feeding program on growth of pre-school children
- Diet and nutrition, Host
Horton, G. M. J., 1977, J. Animal Sc., v. 46 (4), 891-895
Trichostrongylus colubriformis, performance of lambs prone to nutritional muscular dystrophy, treatment with vitamin E and selenium
- Diet and nutrition, Host
Jablonowska, C.; and Jablonowski, Z., 1974, Acta Parasitol. Polon., v. 22 (12-21), 249-259
Ascaris suum and vitamin C deficiency, effect on levels of glucose and acid-soluble phosphate compounds in blood of guinea pigs
- Diet and nutrition, Host
Jablonowski, Z., 1977, Acta Parasitol. Polon., v. 24 (28-34), 295-314
Ascaris suum-infected guinea pigs fed diets varying in vitamin C content, levels of vitamins C and B₂ in some organs, organ weights
- Diet and nutrition, Host
Jackson, J. A.; and Nickol, B. B., 1979, J. Parasitol., v. 65 (1), 167-169
Mediorhynchus centurorum, host specificity for Melanerpes carolinus is thought to result from differences in nesting sites, nest sanitation, foraging behavior, and food items among woodpeckers: Louisiana
- Diet and nutrition, Host
Jones, W. O.; and Symons, L. E. A., 1978, Exper. Parasitol., v. 44 (1), 92-99
Trichostrongylus colubriformis, guinea pigs, primary and secondary infections, skeletal muscle protein catabolism, comparison with uninfected animals fed quantitatively reduced rations, catabolism which was depressed in all 3 groups was directly related to fall in food consumption
- Diet and nutrition, Host
Kechik, I. T.; and Sykes, A. H., 1979, Brit. J. Nutrition, v. 42 (1), 97-103
Eimeria acervulina, chicks (exper.), stress of intestinal infection results in depletion of ascorbic acid in blood plasma and tissues, addition of dietary ascorbic acid prevents depletion
- Diet and nutrition, Host
Laudanna, A. A.; et al., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 222-226
Strongyloides stercoralis, man, massive infection with resulting intestinal loss of protein and malnutrition, recovery after treatment of parasitosis, nutritional importance of parasite in endemic areas discussed
- Diet and nutrition, Host
Lee, C. M.; Glasgow George, Y.; and Aboko-Cole, G., 1977, Ztschr. Parasitenk., v. 53 (1), 1-6
Trypanosoma lewisi, rats, iron metabolism, serum iron and serum iron-binding capacity, diets with various levels of iron
- Diet and nutrition, Host
Lee, D. M.; et al., 1975, Soakwa (J. Korean Pediat. Ass.), v. 18 (11), 20-24 (808-812)
Clonorchis sinensis, children living in endemic area, prevalence, effects on nutritional status: Daehap meon, Chang Yeong county, Kyungnam province
- Diet and nutrition, Host
Lipnitskii, S. S.; and Iakubovskii, M. V., 1975, Vet. Nauka--Proizvod., Trudy, Minsk, v. 13, 143-147
helminths, protozoa, cattle, influence of micro-elements in host diet on infectivity

Diet and nutrition, Host

Mahalanabis, D.; et al., 1978, Am. J. Clin.

Nutrition, v. 32 (2), 313-318

Ascaris lumbricoides and/or *Giardia lamblia*, children, marked impairment of vitamin A absorption

Diet and nutrition, Host

Matsuzawa, T., 1979, Japan. Poultry Sc., v. 16 (3), 137-140

Eimeria tenella, chicks, carbohydrate in host diet, effect on infection

Diet and nutrition, Host

de Melo, H. J. H., 1977, Arq. Escola Vet.

Univ. Fed. Minas Gerais, v. 29 (3), 269-277

helminths, weaned Zebu calves reared extensively on Jaragua grass, different schemes of treatment, effect of anthelmintic treatment on host growth seems to be conditioned to environmental conditions, especially nutrition

Diet and nutrition, Host

Miller, R. F., 1979, Proc. 1979 Maryland Nutrition Conf. Feed Mfr. (University of Maryland, Mar. 15-16), 87-96

parasitism, ruminants, influence on utilization of nutrients, timing of treatment, milk production, reproduction, review

Diet and nutrition, Host

Mozaliene, E.; and Medzevicius, A., 1978, Lietuvos TSR Mok. Akad. Darbai, s. C (81) (1), 91-98

Trichocephalus suis, swine (exper.), effect of dietary iron and copper salts on course of infection

Diet and nutrition, Host

Muniz, V. M. M.; and Ferreira Neto, J. M.,

1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (2), 215-224

gastro-intestinal parasites, sheep, influence of diet and parasitism on some blood components

Diet and nutrition, Host

Murray, J.; et al., 1978, Am. J. Clin. Nutrition, v. 31 (8), 1363-1366

children with syndrome of enlarged parotids, localized forehead edema, heavy infestation with *Ascaris lumbricoides*, and unusual freedom from malaria, piperazine treatment of ascariasis resulted in attacks of malaria, suppression of malaria may be nutritional consequence of severe ascariasis and may represent ecological balance for optimum co-survival of host and two parasites: Anjouan, Comorro archipelago

Diet and nutrition, Host

Nekipelova, R. A.; Kurnikov, V. A.; and Iksanov, S. F., 1978, Veterinariia, Moskva (10), 67

Nematodirus and other nematodes, sheep, effects of addition of trace elements to phenothiazine-cupric sulfate mixture: Tselinogradsk oblast

Diet and nutrition, Host

Nesheim, M. C.; et al., 1978, Proc. Roy. Soc. London, s. B, Biol. Sc. (1148), v. 202, 399-408

Moniliformis dubius-infected vs. uninfected rats fed isoenergetic diets containing varying amounts of starch, host and parasite growth

Diet and nutrition, Host

Niedernostheide, F.; et al., 1979, Zentralbl. Vet.-Med., Reihe B, v. 26 (7), 527-539

Ascaris suum, rats (exper.), effect of iso-energetic fat diets on resistance, immunological and endocrine parameters

Diet and nutrition, Host

Noblet, G. P.; and Turk, D. E., 1979, Poultry Science, v. 58 (2), 392-403

Eimeria spp., chicks (exper.), no interference with overall intestinal absorption of ^{14}C -glucose, results suggest probable compensatory absorption by sections of intestine unaffected by a specific coccidial infection

Diet and nutrition, Host

Omole, T. A.; and Onawunmi, O. A., 1979, Ann. Parasitol., v. 54 (5), 495-506

Trypanosoma brucei-infected immunized and non-immunized rabbits maintained on diets with different levels of copper, growth and carcass performance, blood constituents

Diet and nutrition, Host

Oomen, J. M. V., 1979, Trop. and Geog. Med., v. 31 (3), 395-403

body build and nutritional status of three ethnic groups inhabiting same locality, effects of infections including malaria, *Schistosoma haematobium* and hookworm: Northern Nigeria

Diet and nutrition, Host

Owen, D., 1978, Lab. Animals, v. 12 (2), 49-50

Eimeria stiedae, *E. intestinalis*, standard rabbit diet heavily contaminated with oocysts, sterilization by autoclaving and irradiation was satisfactory for elimination of oocysts from diet but pelleting even at 68° was unsatisfactory

Diet and nutrition, Host

Perez, H.; Malave, I.; and Arredondo, B., 1979, Clin. and Exper. Immunol., v. 38 (3), 453-460

Leishmania mexicana, course of infection in normally nourished vs. protein-deficient mice, possible interaction between malnutrition, impairment of immune response, and chronicity of cutaneous leishmaniasis

Diet and nutrition, Host

Peroutka, M., 1975, 25. Internat. Apicult. Cong. (Grenoble, Sept. 8-14), 386-387

Nosema apis, drones, influence of host diet on development

Diet and nutrition, Host

Poelvoorde, J.; and Berghen, P., 1978, Vlaams Diergeneesk. Tijdschr., v. 47 (5), 373-387

Oesophagostomum dentatum, pigs (exper.) on low-protein diet, blood changes, weight differences

Diet and nutrition, Host

Preston, J. M.; and Allonby, E. W., 1978, Vet. Rec., v. 103 (23), 509-512

Haemonchus contortus, comparison of susceptibility of 4 breeds of sheep and 3 breeds of goats to experimental infection while maintained on both high and low planes of nutrition: Kenya

- Diet and nutrition, Host
 Rao, K. N., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 443-444 [Letter]
Litomosoides carinii, rats, host pyridoxin deficiency caused amicrofilaraemia, deficient group had 1/3 the number of adult worms found in group on control diet
- Diet and nutrition, Host
 Reid, J. F. S.; and Armour, J., 1978, Vet. Rec., v. 102 (1), 4-7
 helminths, sheep, economic effects (death, poor growth rate, poor food utilisation, poor fleece quality), outline of more efficient prophylactic programmes than those currently adopted by sheep farmers: United Kingdom
- Diet and nutrition, Host
 Rinderer, T. E.; and Elliott, K. D., 1977, J. Econom. Entom., v. 70 (4), 431-433
Nosema apis in *Apis mellifera* (exper.), influence of proteinaceous diet (pollen or pollen substitute) on worker bee longevity associated with infection, potential of protein feeding as component in standardized test of honey bee response to *Nosema* infection
- Diet and nutrition, Host
 Rougereau, A.; Lasnier, H.; and N'Diaye, A. M., 1977, Med. et Nutrition, v. 13 (6), 473-475
 oxyures, mice, thiabendazole, drug efficacy highest in hosts on a hyperproteinic diet
- Diet and nutrition, Host
 Ryley, J. F.; and Hardman, L., 1978, Parasitology, v. 76 (1), 11-20
Eimeria spp., chicks (exper.), effects of dietary vitamin K on severity of disease with particular attention to effects of vitamin K on response to anticoccidial drugs, concluded that use of vitamin K deficient diet for experimental work is quite justified
- Diet and nutrition, Host
 Sharma, O. P.; et al., 1979, Indian J. Med. Research, v. 69, 251-254
Plasmodium berghei, mice, effect of starvation, infection, and interactions between the two on lipid peroxide and protein levels of liver and spleen
- Diet and nutrition, Host
 Silva, R. M.; Ferreira Neto, J. M.; and Sampaio, I. B. M., 1978, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 30 (3), 261-274
Haemonchus contortus, sheep (exper.), influence of diet and parasites on copper, iron, and zinc in blood serum
- Diet and nutrition, Host
 Singhvi, A.; and Johnson, S., 1979, Comp. Physiol. and Ecol., v. 4 (1), 28-30
 helminths, *Rattus rattus*, relationship between natural diet and level of infection, difference between sexes: Jodhpur, India
- Diet and nutrition, Host
 Stewart, G. L.; Soifer, F. K.; and Stewart, J. B., 1979, J. Invert. Path., v. 33 (1), 75-80
Dirofilaria immitis, effects of different carbohydrate diets on survival, fecundity, and egg viability in infected *Aedes aegypti* and on development of 3rd stage larvae of nematode
- Diet and nutrition, Host
 Stoimenov, K.; and Stoianova, S., 1978, Vet. Med. Nauki, v. 15 (8), 54-60
Heterakis gallinarum, chicks, effects of vitamins A, B₁, and D₂ given singly or in combination in host diet
- Diet and nutrition, Host
 Straat, H., 1979, Trop. Animal Health and Prod., v. 11 (2), 71-83
 trichostrongylosis, dairy calves, control: rotational grazing vs. set stocking, daily removal of feces from fields, nutritional level: Kenya
- Diet and nutrition, Host
 Sykes, A. R., 1978, Vet. Rec., v. 102 (2), 32-34
 subclinical parasitism in sheep, effects of parasites localized in abomasum, small intestine, and liver on bodyweight gain, efficiency of food utilization, and serum constituents, diagnostic aids
- Diet and nutrition, Host
 Sykes, A. R.; Coop, R. L.; and Angus, K. W., 1979, Research Vet. Sc., v. 26 (3), 372-377
Trichostrongylus vitrinus, sheep (exper.), chronic infection, food intake and body weight gains, food digestibility, body composition, bone chemistry and histology, serum constituents
- Diet and nutrition, Host
 Takhar, B. S.; and Farrell, D. J., 1979, Brit. Poultry Sc., v. 20 (2), 197-211
Eimeria acervulina- or *Eimeria tenella*-infected chickens, energy and nitrogen metabolism
- Diet and nutrition, Host
 Takhar, B. S.; and Farrell, D. J., 1979, Brit. Poultry Sc., v. 20 (2), 213-224
Eimeria acervulina, chickens, single infection provides protection against adverse effects on energy and nitrogen metabolism of further similar infection
- Diet and nutrition, Host
 Tomkins, A. M., 1979, Trop. Doctor, v. 9 (1), 21-24
 role of intestinal parasites in human diarrhea and malnutrition: mechanisms of diarrhea, malabsorption, pathology and clinical symptoms, control
- Diet and nutrition, Host
 Wanchinga, D. M.; and Sonenshine, D. E., 1978, Zambia J. Sc. and Technol., v. 3 (2), 25-30
Amblyomma maculatum, feeding and development, effects of vitamin and mineral deficiencies in host *Rattus norvegicus* diet

- Diet and nutrition, Host
Waslien, C. I.; Farid, Z.; and Darby, W. J., 1973, *South. Med. J.*, v. 66 (1), 47-50
schistosomiasis and/or hookworm, humans, study of blood and nutrition losses shows that drain on iron, protein, zinc and vitamin A stores plus other pathology is more significant as cause of malnutrition than abnormality of absorption functions: Egypt
- Diet and nutrition, Host
Wenlock, R. W., 1979, *J. Trop. Med. and Hyg.*, v. 82 (5), 90-98
malaria, hookworm, *Schistosoma haematobium*, humans in rural environment, epidemiology in relation to malnutrition and host age, importance as public health problems: Zambia
- Diet and nutrition, Host
Willett, W. C.; Kilama, W. L.; and Kihamia, C. M., 1979, *Am. J. Pub. Health*, v. 69 (10), 987-991
Ascaris-infected children, levamisole, effect on growth rate; results consistent with a causal association between ascariasis and malnutrition: Ubiri village near Lushoto, Tanzania
- Diet and nutrition, Host
Wilson, A. J.; and Trueman, K. F., 1978, *Austral. Vet. J.*, v. 54 (3), 121-124
Anaplasma marginale, *Bos indicus* cross steers (exper.), effects of reduced energy intake on humoral antibody response, parasitaemia, body weight, packed cell volumes, and plasma protein values
- Diet and nutrition, Parasite
Akpm, C. A., 1978, *Trop. and Geogr. Med.*, v. 30 (2), 219-225
Schistosoma mansoni, mice, oogram as sensitive method of assessing effect of host malnutrition on parasite
- Diet and nutrition, Parasite
Arme, C.; and Walkey, M., 1970, *Symposia Brit. Soc. Parasitol.*, v. 8, 79-101
physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)
- Diet and nutrition, Parasite
Bannister, L. H., 1979, *Proc. Roy. Soc. London*, s. B., *Biol. Sc.* (1155), v. 204, 141-163
intracellular Protista, taxonomic range, location within host cells, host species and host cell specificity, invasion of host cells, methods of evading intracellular destruction by lysosomes, nutrition, effects on structure and composition of host cells, exit from host cell, review
- Diet and nutrition, Parasite
Batson, B. S., 1979, *Internat. J. Parasitol.*, v. 9 (6), 495-503
Gastromermis boophthorae, body wall, ultrastructural changes during life cycle, alkaline phosphatase activity, relationship to transcuticular uptake of nutrients
- Diet and nutrition, Parasite
Batson, B. S., 1979, *Internat. J. Parasitol.*, v. 9 (6), 505-514
Gastromermis boophthorae, trophosome, ultrastructure at selected points in life cycle, functional considerations
- Diet and nutrition, Parasite
Belinskaia, V. Z., 1973, *Parazitologiya*, Leningrad, v. 7 (2), 116-122
Hypoderma bovis, 1st stage larvae, uptake of amino acids tagged with radioisotopes
- Diet and nutrition, Parasite
Bonner, T. P., 1979, *J. Parasitol.*, v. 65 (1), 74-78
Nippostrongylus brasiliensis, 3rd-stage larvae, initiation of development in vitro evaluated on basis of morphology and RNA biosynthesis, effect of actinomycin-D, results support idea that elevation of temperature and certain nutritional components stimulate transcription of portion of genome coding for development into parasitic phase
- Diet and nutrition, Parasite
Brockelman, C. R.; and Jackson, G. J., 1978, *J. Parasitol.*, v. 64 (5), 803-809
Rhabditis maupasi, axenic cultivation in chemically defined medium, nutritional (amino acid, heme, and sterol) requirements
- Diet and nutrition, Parasite
Chen, S. N.; and Howells, R. E., 1979, *Parasitology*, v. 78 (3), 343-354
Brugia pahangi, infective larvae, juveniles, adults, uptake in vitro of dyes, monosaccharides, and amino acids, no evidence for oral uptake, transcuticular route of uptake may be employed
- Diet and nutrition, Parasite
Doran, D. J.; and Augustine, P. C., 1978, *J. Protozool.*, v. 25 (4), 544-546
Eimeria tenella, vitamin requirements for development in primary cultures of chicken kidney cells
- Diet and nutrition, Parasite
Fournier, A., 1978, *Parasitology*, v. 77 (1), 19-26
Euzetrema knoeppfleri, ultrastructure of digestive caecum, partially haematophagous diet, digestive process, evidence for synchronous cycle of gastrodermal activity and 'apocrine-like' release of residues of digestion
- Diet and nutrition, Parasite
Fried, B.; and Nelson, P. D., 1978, *Parasitology*, v. 77 (1), 49-55
Zygocotyle lunata in domestic chicks, gross and histopathological effects on caecal tissues, feeding by worms on host caecal debris, stunting due to worm crowding
- Diet and nutrition, Parasite
Galinari, S.; and Camargo, E. P., 1978, *Exper. Parasitol.*, v. 46 (2), 277-282
trypanosomatid protozoa, 16 spp., survey for acetylornithinase and ornithine acetyltransferase, metabolic and nutritional implications

- Diet and nutrition, Parasite
Gordon, R.; et al., 1978, *Parasitology*, v. 77 (3), 367-374
Neomesomermis fluminalis in *Prosimulium mixtum/fussum* and *Simulium venustum*, effects of parasitism on hemolymph composition (protein, amino acid, carbohydrate), relation to nematode's nutritional requirements
- Diet and nutrition, Parasite
Graf, J. F., 1978, *Mitt. Schweiz. Entom. Gesellsch.*, v. 51 (1), 89-97
Ixodes ricinus, copulation, nutrition, and oviposition, rearing method, white mouse used for larvae and nymphs, rabbit and guinea pig for females, sex of nymphs determined successfully on basis of engorgement weight
- Diet and nutrition, Parasite
Halton, D. W., 1978, *Parasitology*, v. 76 (1), 29-37
Diclidophora merlangi, trans-tegumental absorption of L-alanine and L-leucine, worm is clearly sanguinivorous and digests blood in well-developed gut but may also be capable of supplementing this diet with low molecular weight organic nutrient absorbed directly from sea water via tegument
- Diet and nutrition, Parasite
Higgins, J. C., 1979, *Parasitology*, v. 78 (1), 99-106
Bucephalus haimeanus, metacercaria, role of tegument in absorption of particulate material and small molecules in solution
- Diet and nutrition, Parasite
Jennings, J. B., 1977, *Acta Zool. Fennica* (154), 63-79
free-living and symbiotic Turbellaria, patterns of nutritional physiology, their implications for evolution of entoparasitism
- Diet and nutrition, Parasite
Kamala Bai, M.; and Prasad, R. S., 1979, *Entom. Exper. et Applic.*, v. 26 (1), 80-84
Xenopsylla cheopis, *X. astia*, role of dietary components in vitellogenesis
- Diet and nutrition, Parasite
Lo, H. S.; and Reeves, R. E., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 194-197
Entamoeba histolytica, axenic culture, riboflavin requirement
- Diet and nutrition, Parasite
Mauro, N. A.; and Weinstein, P. O., 1979, *Internat. J. Parasitol.*, v. 9 (5), 421-427
Nematospiroides dubius, *Nippostrongylus brasiliensis*, nutritional requirements for development of free-living stages in vitro: effects of sterols, rat hematin, and coproporphyrin; analysis of egg lipids
- Diet and nutrition, Parasite
Mester, H., 1978, *Ang. Parasitol.*, v. 19 (1), 20-28
Actornithophilus gracilis, *Austromenopon aegialitidis*, *Quadriceps junceus*, lapwing nestlings, correlation between number of lice and host age, food preferences of both sexes of lice, overcrowding
- Diet and nutrition, Parasite
Mey, E., 1978, *Ang. Parasitol.*, v. 19 (1), 19-20
Myrsidea cornicis, *Gallacanthus kaddoui*, drinking of eye secretions of bird hosts
- Diet and nutrition, Parasite
Mied, P. A.; and Bueding, E., 1979, *J. Parasitol.*, v. 65 (1), 25-30
Hymenolepis diminuta, glycogen synthase, parasite nutritional state, interconversion of enzyme forms, and primer glycogen molecular weight as control factors
- Diet and nutrition, Parasite
Mishra, G. C.; and Dev, B., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 103-111
Poecilobdella granulosa, phosphatase systems inhibited by various amino acids but alkaline phosphatase of stomach and intestine activated by certain amino acids at low concentrations, correlated with sanguivorous habits
- Diet and nutrition, Parasite
Murray, J.; et al., 1978, *Am. J. Clin. Nutrition*, v. 31 (8), 1363-1366
children with syndrome of enlarged parotids, localized forehead edema, heavy infestation with *Ascaris lumbricoides*, and unusual freedom from malaria, piperazine treatment of ascariasis resulted in attacks of malaria, suppression of malaria may be nutritional consequence of severe ascariasis and may represent ecological balance for optimum co-survival of host and two parasites: Anjouan, Comorro archipelago
- Diet and nutrition, Parasite
Oormazdi, H.; and Baker, K. P., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 185-187
Bovicola bovis, examination of dietary constituents
- Diet and nutrition, Parasite
Ormieres, R., 1977, *Ztschr. Parasitenk.*, v. 53 (1), 13-22
Pyxinia firmus, ultrastructure of epimerite, possible functions in fixation and nutrition
- Diet and nutrition, Parasite
Panza Carpio, J. A., 1974, *Rev. Fac. Farm., Univ. Central Venezuela* (27), v. 14, 61-68
Trypanosoma rangeli, culture in diphasic autoclaved medium containing human albumin, implications for nutritional requirements
- Diet and nutrition, Parasite
Parshad, V. R.; and Guraya, S. S., 1978, *J. Helminth.*, v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients
- Diet and nutrition, Parasite
Platzer, E. G.; and Kassis, J. A., 1978, *J. Protozool.*, v. 25 (4), 556-559
Plasmodium lophurae, pyridoxine kinase in trophozoites and in duckling erythrocytes, results suggest that vitamin B₆ metabolism of malaria parasites is distinct and separate from that of host erythrocytes

Diet and nutrition, Parasite

- Rahman, S. A.; and Waddell, A. H., 1979, Indian Vet. J., v. 56 (7), 604-607
Strongylus edentatus, feeding sites on caecal mucosa of horse, worm intestinal contents, histological study

Diet and nutrition, Parasite

- Reitblat, A. G.; Kalmykova, N. P.; and Emel'ianov, P. F., 1978, Zool. Zhurnal, v. 57 (11), 1732-1735
 mites from nests of suslik, feeding on flea eggs and larvae and blood and albumen, comments on regular feeding habits; possible influence on flea populations

Diet and nutrition, Parasite

- Romestand, B., 1979, Ann. Parasitol., v. 54 (4), 423-448
Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts

Diet and nutrition, Parasite

- Scorza, J. V., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (2), 97-105
Plasmodium tropiduri, P. berghei, P. gallinaeum, intraerythrocytic stages, morphological and enzyme cytochemical observations on phagotrophy

Diet and nutrition, Parasite

- Shapiro, A.; et al., 1978, J. Protozool., v. 25 (4), 530-535
Crithidia fasciculata, growth in vitro, improvements in defined medium, survey of efficiency of chelators, chelator-metal ion relations, Fe, Cu, Mo requirements for hemin sparing, potential uses of high-yield media

Diet and nutrition, Parasite

- Tinsley, R. C.; and Owen, R. W., 1979, J. Helminth., v. 53 (4), 307-316
Xenopodistomum xenopodis from *Xenopus laevis* (gall bladder), morphology, growth and development, prevalence and intensity of infection, absence of pathological effects, parasite's diet: imported to England from Cape Flats, near Cape Town, South Africa

Diet and nutrition, Parasite

- Trager, W., 1974, Ciba Found. Symp., n.s. (20), 225-254
 trypanosomes, leishmanias, nutrition and biosynthetic capabilities, problems of in vitro cultivation and differentiation, review

Diet and nutrition, Parasite

- Valtonen, E. T., 1979, J. Fish Dis., v. 2 (2), 99-103
Neoechinorhynchus rutili in *Coregonus nasus*, seasonal prevalence, intensity of infection, distribution in host intestine, correlation between ostracods in diet and occurrence of *N. rutili*: north-east of Bay of Bothnia, between parish of Haukipudas and island of Hailuoto

Diet and nutrition, Parasite

- Warenycia, M. W.; et al., 1978, Experientia, v. 34 (4), 473-475
Trypanosoma theileri, identification as contaminant in primary cultures of bovine retina, successful subculture for 2 passages in sub-confluent cultures, some nutritional requirements, when cultures reached confluency no trypomastigotes or epimastigotes could be detected and attempts to recover trypanosomes from these cultures were unsuccessful

Diet and nutrition, Parasite

- Yamaguti, S., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 845-848
 special modes of nutrition in some digenetic trematodes

Digestion, Host

- Bueno, L.; Ruckebusch, Y.; and Dorchies, Ph., 1979, Vet. Parasitol., v. 5 (2-3), 253-260
 strongyle-infected ponies (nat. and exper.), disturbances of digestive motility, effect of mebendazole treatment

Digestion, Host

- Dargie, J. D.; Berry, C. I.; and Parkins, J. J., 1979, Research Vet. Sc., v. 26 (3), 289-295
Fasciola hepatica, sheep (exper.) given hay or hay plus pelleted supplement, feed intake and digestibility, body weight and nitrogen balance

Digestion, Host

- Major, J. R., jr.; and Ruff, M. D., 1978, Exper. Parasitol., v. 45 (2), 234-240
Eimeria spp., effects of coccidiosis on digestive capacity (amylase) of broiler chickens, changes in pancreatic, luminal, and surface-bound amylolytic activity, reduction in amylolytic activity as pH went below 5.0

Digestion, Host

- Reynolds, G. W.; et al., 1979, Ann. Recherches Vet., v. 10 (2-3), 341-343
Ostertagia circumcincta-infected sheep (exper.), assay of tissue and serum gastrin, hypergastrinaemia

Digestion, Host

- Sykes, A. R.; Coop, R. L.; and Angus, K. W., 1979, Research Vet. Sc., v. 26 (3), 372-377
Trichostrongylus vitrinus, sheep (exper.), chronic infection, food intake and body weight gains, food digestibility, body composition, bone chemistry and histology, serum constituents

Digestion, Parasite

- Carlisle, S.; and Weisberg, L. S., 1978, Exper. Parasitol., v. 44 (1), 124-135
Schistosoma mansoni-infected mice injected via tail vein with peroxidase and Thorotrast, subsequent appearance of these tracers in worms, results suggest that tegumental and cecal surfaces may exhibit functional specialization in male vs. female worms

Digestion, Parasite

- Davydov, O. N.; and Kosenko, L. Ia., 1972, *Parazitologiya*, Leningrad, v. 6 (3), 269-273
Ligula intestinalis, amylase in surface layer of plerocercoids and in media in which they were maintained, findings suggest capability of membrane (contact) digestion and absorption of food from host

Digestion, Parasite

- Dev, B.; and Mishra, G. C., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 97-101
Poecilobdella granulosa, decerebration leads to activation of gastric phosphatases and inhibition of intestinal phosphatases; correlation with metabolic metameric control

Digestion, Parasite

- Ernst, S. C., 1976, *Rice Univ. Studies*, v. 62 (4), 81-95
Schistosoma mansoni, alkaline phosphatase activity, biochemical and cytochemical studies, tegumental localization suggests that invaginations of tegument represent surface compartments that would facilitate digestive absorptive activity of this membrane, localization of nonspecific alkaline phosphatase activity in tegument but not in esophagus or cecum may reflect regional differences in function

Digestion, Parasite

- Fournier, A., 1978, *Parasitology*, v. 77 (1), 19-26
Euzetrema knoeffleri, ultrastructure of digestive caecum, partially haematophagous diet, digestive process, evidence for synchronous cycle of gastrodermal activity and 'apocrine-like' release of residues of digestion

Digestion, Parasite

- Mishra, G. C.; and Dev, B., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 103-111
Poecilobdella granulosa, phosphatase systems inhibited by various amino acids but alkaline phosphatase of stomach and intestine activated by certain amino acids at low concentrations, correlated with sanguivorous habits

Digestion, Parasite

- Parshad, V. R.; and Guraya, S. S., 1978, *J. Helminth.*, v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients

Digestion, Parasite

- Scorza, J. V., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (2), 97-105
Plasmodium tropiduri, *P. berghei*, *P. gallinaceum*, intraerythrocytic stages, morphological and enzyme cytochemical observations on phagotrophy

Digestive system. [See also Biliary tract; Esophagus; Intestine; Mouth; Pancreas; Stomach]

Digestive system, Host

- Fedichkina, T. P.; Shevkunova, E. A.; and Sivukha, T. A., 1979, *Sovet. Med.* (5), 25-30
 toxoplasmosis, human, gastritis, cholecystitis, colitis and other pathology involving the gastrointestinal tract

Digestive system, Host

- Stepien, H., 1977, *Przegl. Epidemiol.*, v. 31 (3), 299-303
Enterobius vermicularis, *Trichuris trichiura*, *Ascaris lumbricoides*, children, enteric parasites modify quantitatively and qualitatively the host intestinal flora

Digestive system, Parasite

- Rao, L. N., 1976, *J. Zool. Soc. India*, v. 26 (1-2), 1974, 63-67
Tremiorchis ranarum, *Ganeo tigrinum*, *Mehrorchis ranarum*, presence of only one type of epithelial cells in caeca performing both functions of secretion and absorption

Digestive system, Parasite

- Saxena, A., [1979], *J. Animal Morph. and Physiol.*, v. 25 (1-2), 1978, 16-21
Aspiculuris pakistanica from *Rattus rattus*, description of cephalic region, buccal capsule, and oesophagus, distribution of nuclei in oesophagus

Digestive system, Parasite

- Spence, I. M.; and Silk, M. H., 1970, *South African J. Med. Sci.*, v. 35 (3-4), 93-112
Schistosoma mansoni, digestive system, ultrastructure

Dimorphism. [See also Morphology; Polymorphism]

Dimorphism

- Holcman-Spector, B.; Mane-Garzon, F.; and Dei-Cas, E., 1977, *Rev. Biol. Uruguay*, v. 5 (2), 67-76
Falsifilicollis sp., invaginated and disinvaginated larvae, description, sexual dimorphism in relation to size

Disease models, Animal. See Technique, Experimental hosts.

Disease transmission. [See also Epidemiology; Foci; Occupational diseases; Reservoir hosts; Sanitation and hygiene; Vectors]

Disease transmission

- Barbour, A. D., 1978, *Math. Biosc.*, v. 38 (3-4), 303-312
bilharzia, stochastic version of Macdonald's model for transmission

Disease transmission

- Chieffi, P. P.; et al., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (2), 86-91
 human intestinal parasites, epidemiologic survey of children in orphanage for methods of transfer of infections (clothing, dust, jewelry, feces, hands, nails, bed linens): Londrina, Parana, Brazil

Disease transmission

Keymer, A. E.; and Anderson, R. M., 1979, Parasitology, v. 79 (2), 195-207

Hymenolepis diminuta, dynamics of transmission by *Tribolium confusum*: age-dependent infectivity of eggs, influence of infective-stage density on rate of parasite establishment, density-dependent constraints, limitations on rate of acquisition of infection imposed by host feeding behavior, dynamics of ingestion of eggs by host, influence of spatial distribution of infective stages on infection

Disease transmission, Acarina. See Vectors, Acarina.

Disease transmission, Air

Lawande, R. V.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (4), 84-88

Naegleria fowleri, children, primary amoebic meningoencephalitis, possible inhalation of airborne cysts: Northern Nigeria

Disease transmission, Animal to animal. [See also Disease transmission, Venereal]

Disease transmission, Animal to animal

Armstrong, E., 1977, Ztschr. Parasitenk., v. 53 (3), 311-315

Nosema kingi in *Drosophila willistoni*, transmission by either parent to offspring during copulation, more offspring became infected when copulation was delayed 2 weeks after infection of parent

Disease transmission, Animal to animal

Barretto, M. P.; Ribeiro, R. D.; and Belda Neto, F. M., 1978, Rev. Brasil. Biol., v. 38 (2), 455-459

Trypanosoma cruzi, infection of vertebrate hosts by feeding them infected triatomines or infected rats and mice demonstrates importance of oral route of transmission

Disease transmission, Animal to animal

Bejsovec, J., 1975, Ang. Parasitol., v. 16 (2), 67-77

helminths and coccidia, possible transmission between domestic and wild gallinaceous birds, influence of change in biotopes due to shift from small to large-scale agricultural production: Czechoslovakia

Disease transmission, Animal to animal

Bozhkov, D., 1976, Khelmintologiya, Sofia, v. 1, 5-11

helminths, transmission experiments, *Rana ridibunda* to *Rana dalmatina*

Disease transmission, Animal to animal

Brown, C. G. D.; et al., 1978, Exper. Parasitol., v. 45 (1), 55-64

Theileria parva, experiments support hypothesis that the parasite (either as an infective particle derived from *Rhipicephalus appendiculatus* or as a macroschizont) may become closely associated with a member of the leukocyte series and that, on inoculation of such material into cattle, subsequent development to produce East Coast fever is dependent on acceptance of these cells by the recipient

Disease transmission, Animal to animal

Bywater, J. E.; and Kellett, B. S., 1978, Infect. and Immun., v. 21 (2), 360-364

Encephalitozoon cuniculi, existence in specific-pathogen-free rabbit colony, small-sized samples failed to reveal presence of infection with low prevalence, organism probably present in original stock of unit, possibility of establishing *Encephalitozoon*-free colony by culling all positive reactors using India ink immunoreaction test, incidence (familial, sexual, and age-related) and possible routes of transmission

Disease transmission, Animal to animal

Casto, S. D., 1974, J. Med. Entom., v. 11 (1), 113-114

Syringophiloidus minor, laboratory evidence of nocturnal dispersal rhythm

Disease transmission, Animal to animal

Chhabra, M. B.; and Mahajan, R. C., 1978, Vet. Rec., v. 103 (25), 562-563

Sarcocystis sp. from goats slaughtered at meat market, successful transmission to pups (feces) raised hygienically on meat-free diet, implications for continued transmission: India

Disease transmission, Animal to animal

Cooper, C. L.; Crites, J. L.; and Sprinkle-Fastkie, D. J., 1978, J. Parasitol., v. 64 (1), 102-107

Eustrongylides tubifex, third and fourth stage larvae, prevalence and intensity in various age/size classes of fish hosts with possible factors responsible for results, site selection, emergence behavior in relation to temperature as possible adaptation to facilitate rapid infection of definitive warm-blooded host upon ingestion of infected fish

Disease transmission, Animal to animal

Dunsmore, J. D.; and Spratt, D. M., 1979, Vet. Parasitol., v. 5 (2-3), 275-286

Filaroides osleri in wild and domestic canids (nat. and exper.), prevalence in relation to host age and sex, life history, transmission: Australia

Disease transmission, Animal to animal

Heath, A. C. G., 1978, N. Zealand Vet. J., v. 26 (12), 299-300, 309-310

Chorioptes bovis, sheep, seasonality, pathogenicity, intra-flock transfer, analysis of semen quality of rams with scrotal lesions: [New Zealand]

Disease transmission, Animal to animal

Lehnert, T.; and Shimanuki, H., 1979, Apidologie, v. 10 (1), 17-22

Nosema apis, package bees, population change and spore levels in older vs. newly emerged bees, much of disease eliminated with death of older bees, effect of feeding fumagillin at time packages are installed

Disease transmission, Animal to animal

Linnik, V. Ia., 1977, [Parasites of fish, harmful to humans and animals], 94 pp., illus. helminths of fishes harmful to humans and other animals, descriptive manual, control measures

- Disease transmission, Animal to animal
Londono M., I., 1975, Rev. Colomb. Entom., v. 1 (2-3), 27-37
Dipetalonema viteae, larval migration and distribution in *Ornithodoros tartakowskyi*, elimination of nematode larvae in tick coxal fluid may prevent hyperinfection, cannibalism transmits nematodes among ticks
- Disease transmission, Animal to animal
Lord, R. D., 1976, Scient. Pub. (334), Pan Am. Health Organ., 86-93
Trypanosoma hippicum, importance of bats as reservoir hosts in epidemiology of zoonoses
- Disease transmission, Animal to animal
Lukashenko, N. P.; et al., 1971, Acta Parasitol. Polon., v. 19 (9-18), 151-161
Trichinella spiralis, distribution, epidemiology, transmission, review: Chukotka Peninsula
- Disease transmission, Animal to animal
Morozov, Iu. A.; Rapoport, L. P.; and Kovtun, I. P., 1972, Parazitologiya, Leningrad, v. 6 (4), 334-337
flea exchange between *Rhombomys opimus* and *Citellus fulvus* studied by radioisotope tracing: Prichuisk Muyunkum
- Disease transmission, Animal to animal
Neraasen, T. G.; and Holmes, J. C., 1975, Acta Parasitol. Polon., v. 23 (12-25), 277-289
analysis of circulation of cestodes among 3 species of geese (young and adult) nesting in close association, 4 groups of cestodes delineated representing different pathways and patterns of exchange: Anderson River Delta, Northwest Territories, Canada
- Disease transmission, Animal to animal
Roman, E., 1978, Bull. Soc. Sc. Vet. et Med. Comp. Lyon, v. 80 (3), 139-145
Taenia taeniaeformis, *Hymenolepis diminuta*, *H. nana*, normal parasites of rats, possibilities of transmission to humans and domestic animals: area of Lyon
- Disease transmission, Animal to animal
Schaffer, G. D.; et al., 1978, J. Am. Vet. Med. Ass., v. 173 (9), 1148-1151
hematotrophic parasites of *Procyon lotor*, carrier potential as related to translocation and release for hunting purposes, practice is considered biologically hazardous: south-eastern United States
- Disease transmission, Animal to animal
Sebesteny, A., 1979, Lab. Animals, v. 13 (3), 189-191
intestinal protozoa, successful transmission to and establishment in specific-pathogen-free mice exposed to intestinal contents of infected hamsters
- Disease transmission, Animal to animal
Sogorb S., F.; et al., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (3), 131-138
Toxoplasma gondii, sibling kittens infected per os or parenterally with cysts or trophozoites, serological studies of kittens and mother cats, course of infection; immunity and transmission discussed
- Disease transmission, Animal to animal
Westrom, D. R.; Nelson, B. C.; and Connolly, G. E., 1976, J. Med. Entom., v. 13 (2), 169-173
Bovicola tibialis, transmission from introduced *Dama dama* to *Odocoileus hemionus columbianus* apparently by direct contact at feeders, absence of males suggests that parthenogenetic reproduction occurs in *B. tibialis*: California
- Disease transmission, Animal to animal
Wightman, S. R.; Wagner, J. E.; and Corwin, R. M., 1978, Lab. Animal Sc., v. 28 (1), 51-54
Syphacia obvelata in research and pet *Meriones unguiculatus* (colon, cecum), transmission from gerbil to gerbil, gerbil to mouse, and mouse to gerbil
- Disease transmission, Animal to animal
Woehrl, H.; Hoerchner, F.; and Grelck, H., 1977, Arch. Lebensmittel-Hyg., v. 28 (5), 198-200
Trichinella spiralis, successful experimental transmission between ponies and rats
- Disease transmission, Animal to man
Amato Neto, V.; and Levi, G. C., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (1), 41-45
Toxoplasma gondii, members and visitors of small community, pigeons as source of infection: city of Sao Paulo, Brazil
- Disease transmission, Animal to man
Arnaus, V. R. S.; and Voronoff, S., 1975, Rev. Brasil. Med., v. 32 (1), 23-25
Toxoplasma gondii, essential role of cat in life cycle and in transmission to man
- Disease transmission, Animal to man
Auger, P.; et al., 1979, Canad. Med. Ass. J., v. 120 (6), 700, 703
Dermanyssus gallinae, human, in-hospital outbreak of skin acariasis, pigeon nests on window ledges and air conditioners were infested, when pigeons were displaced human infections ceased: centre hospitalier de Lanaudiere, Joliette, PQ
- Disease transmission, Animal to man
Beran, G. W.; and Arambulo, P. V. III, 1972, Philippine J. Vet. Med., v. 11 (2), 45-62
zoonoses of cattle and carabaos, including parasitic zoonoses, review: Philippines
- Disease transmission, Animal to man
Brandrup, F.; Andersen, K. E.; and Kristensen, S., 1979, Ugeskr. Laeger, v. 141 (15), 1015-1017
Cheyletiella yasguri infection in dogs and their owners, removal of dogs from homes and therapy with metrifonate baths exterminated mite populations: Denmark
- Disease transmission, Animal to man
Bywater, J. E. C., 1979, Lab. Animals, v. 13 (2), 149-151
encephalitozoonosis, discussion of reported human cases, doubt that is is zoonotic

- Disease transmission, Animal to man
Cotteleer, C.; and Fameree, L., 1978, Schweiz. Arch. Tierh., v. 120 (4), 181-187
domestic and semi-feral pigeons, survey of intestinal parasites, presence of anti-Toxoplasma antibodies in serum, possible role in epidemiology of toxoplasmosis: Belgium
- Disease transmission, Animal to man
Crespi, H. G., 1975, Rev. Hosp. Niños, Buenos Aires (67), v. 17, 172-176
review of cutaneous zooparasitosis, diagnosis, recommendations for therapy (sarna; pediculosis; Cimex lectularius; Pulex irritans; Oxiuriasis cutanea; miasis cutaneas; Pthirus inguinalis)
- Disease transmission, Animal to man
Currier, R. W. II; Kinzer, G. M.; and Deshields, E., 1973, South. Med. J., v. 66 (9), 1060-1062
Dipylidium caninum, 14-month-old child, pet dog with fleas probable source of infection: Huntsville, Alabama
- Disease transmission, Animal to man
Delgado Garcia, G.; and Sanchez Torres, M., 1977, Rev. Cubana Med. Trop., v. 29 (3), 121-127
[Toxoplasma] gondii, immunoserological study of humans suspected of having infections resulting from their contacts with domestic animals
- Disease transmission, Animal to man
Dias, J. A. T. S., 1971, Rev. Cien. Vet., Lourenco Marques, s. B, v. 14, 145-170
importance of parasitosis of Canis familiaris in public health, infections common to both dog and man
- Disease transmission, Animal to man
Dissanaïke, A. S., 1979, Bull. World Health Organ., v. 57 (3), 349-357
zoonotic aspects of filarial infections in man, review
- Disease transmission, Animal to man
Durfee, P. T.; and Cross, J. H., 1972, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 71 (8), 509-524
catalogue of zoonoses of Taiwan, ready reference for physicians, veterinarians, and public health workers
- Disease transmission, Animal to man
Elgart, M. L.; and Higdon, R. S., 1972, South. Med. J., v. 65 (3), 375-376
canine scabies, family outbreak, infection acquired from pet dog, clinical aspects
- Disease transmission, Animal to man
Feld, H., 1973, Radiology, v. 108 (1), 311-312
Dirofilaria immitis causing pulmonary infarction in man, diagnosis by radiology, clinical case report, patient had been caring for dog infected with heartworm: Florida
- Disease transmission, Animal to man
Freudiger, U.; and Hoerning, B., 1975, Therap. Umschau, v. 32 (4), 229-236
zoonosis, epidemiology, short general review of most important diseases transmissible from animals to man and from man to animals
- Disease transmission, Animal to man
Glazebrook, J. S.; et al., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (2), 147-156
zoonotic infections, occurrence and distribution in rodents: north Queensland
- Disease transmission, Animal to man
Glazebrook, J. S.; Campbell, R. S. F.; and Hutchinson, G. W., 1977, Tropenmed. u. Parasitol., v. 28 (4), 545-551
survey of feral rodents in six tropical habitats for infections of potential zoonotic importance
- Disease transmission, Animal to man
Goldsmid, J. M., 1974, Ann. Soc. Belge Med. Trop., v. 54 (2), 87-101
intestinal helminths, Papio ursinus, prevalence, potentially important source of infection for humans living in same general environment: Rhodesia
- Disease transmission, Animal to man
Grossklaus, D., 1979, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe B, v. 168 (1-2), 83-96
zoonoses transmitted via foodstuff, control measures, review
- Disease transmission, Animal to man
Guglielmino, S.; et al., [1978], Riv. Parassitol., Roma, v. 38 (2-3), 1977, 285-294
Toxoplasma gondii, women, presence of antibodies correlated with various disorders, significant risk of infection through consumption of uncooked or underdone meat but not through contact with animals: area urbana di Catania e provincia
- Disease transmission, Animal to man
Gump, D. W.; and Holden, R. A., 1979, Ann. Int. Med., v. 90 (1), 58-60
Toxoplasma gondii, human, acquired chorioretinitis, pet cat possible source of infection, case report
- Disease transmission, Animal to man
Herwick, R. P., 1978, Arch. Dermat., Chicago, v. 114 (1), 130 [Letter]
pruritic eruptions on torso and extremities of woman who had just acquired a puppy that was infected with Otodectes cynotis: San Francisco
- Disease transmission, Animal to man
Hira, P. R., 1975, Ann. Soc. Belge Med. Trop., v. 55 (6), 633-642
Schistosoma mattheei, humans, 3 case reports, differentiation from S. intercalatum on basis of ova morphology, clinical presentation, and epidemiology; Bulinus africanus is probable vector: Zambia
- Disease transmission, Animal to man
Joshua, R. A.; Herbert, W. J.; and White, R. G., 1978, Lancet, London (8066), v. 1, 724-725 [Letter]
Trypanosoma brucei brucei, acquisition of potential infectivity for man (resistance to normal human serum when tested by blood incubation infectivity test) after maintenance in domestic hens, suggests birds as potential reservoirs of trypanosomes of brucei group

- Disease transmission, Animal to man
Kahrs, R. F.; Holmes, D. N.; and Poppensiek, G. C., 1978, Cornell Vet., v. 68 (4), 442-459
pets as source of human infection, role of veterinarians in controlling zoonotic diseases by providing information and advice to pet owners
- Disease transmission, Animal to man
Kieffer, M.; Kristensen, S.; and Hallas, T. E., 1979, Ugeskr. Laeger, v. 141 (49), 3363-3367
ectoparasites of dogs and cats, cause of pruritic lesions in human owners, diagnosis, clinical findings, case reports, control measures: Denmark
- Disease transmission, Animal to man
Konjevic, P., 1979, Acta Parasitol. Iugoslavi-
ca, v. 9 (2), 97-103
toxoplasmosis, human, incidence, significance of age, eating of raw meat, contact with domestic animals, indirect fluorescent antibody test: Kutina, Croatia, Yugoslavia
- Disease transmission, Animal to man
Kristensen, S.; Brandrup, F.; and Andersen, K. E., 1978, Dansk Vet.-Tidsskr., v. 61 (8), 369-375
Cheyletiella yasguri, dogs and humans exposed to dogs, case histories, neguvon successful in dogs
- Disease transmission, Animal to man
Kyllerman, M.; and Strannegard, O., 1979, Arch. Dis. Childhood, v. 54 (4), 326-327
[Letter]
toxoplasmosis, 5-year-old boy, hemiplegia, disease most likely acquired from cat which had high serum levels of toxoplasma antibodies, trimethoprim-sulphafurazole treatment
- Disease transmission, Animal to man
Leak, D.; and Meghji, M., 1979, Am. J. Cardiol., v. 43 (4), 841-849
Toxoplasma gondii, human, toxoplasmic myocarditis, 18 cases in one community, epidemiology, pathology, clinical management: Hamilton, Ontario, Canada
- Disease transmission, Animal to man
Linnik, V. Ia., 1977, [Parasites of fish, harmful to humans and animals], 94 pp., illus.
helminths of fishes harmful to humans and other animals, descriptive manual, control measures
- Disease transmission, Animal to man
Mantovani, A.; Battelli, G.; and Zanetti, R., 1978, Ann. Ist. Super. San., Roma, v. 14 (2), 287-293
problems of zoonoses connected with urban and semiurban environments, review
- Disease transmission, Animal to man
Martins, M. I. F. do C., 1971, Rev. Cien. Vet., Lourenco Marques, s. B, v. 14, 171-182
importance of parasitosis of Sus scrofa in public health, parasites common to man and pigs
- Disease transmission, Animal to man
Munz, E., 1977, Tieraerztl. Prax., v. 5 (2), 159-166
zoonoses of human and veterinary importance, includes mention of echinococcosis
- Disease transmission, Animal to man
Overdulve, J. P., 1978, Proc. K. Nederl. Akad. Wetensch., s. C, Biol. and Med. Sc., v. 81 (1), 1-18
Toxoplasma gondii, non-immunized and immunized cats (primary oral infection followed by challenge), excretion of oocysts, and its role in epidemiology of toxoplasmosis; cats disseminate T. gondii mainly by remote and indirect transmission and overall pollution rather than by direct contact between cats and humans
- Disease transmission, Animal to man
Padchenko, I. K., 1970, Parazitologiya, Lenin-
grad, v. 4 (4), 394-396
Lambliia, infestation rate in humans of different age groups in rural and urban areas, high infestation rate in preschool rural children may be explained by contact with farm dogs which carry natural infections of L. canis and were proved experimentally susceptible to L. intestinalis: Ukraine
- Disease transmission, Animal to man
Pandey, V. S.; and Mbemba, Z., 1976, Ann. Soc. Belge Med. Trop., v. 56 (1), 43-46
Cysticercus cellulosae, survey of slaughtered pigs, high incidence in some areas attributed to poor sanitation, living habits, and absence of control facilities, implications for continued spread to both man and animals: Zaire
- Disease transmission, Animal to man
Pasyk, K., 1978, Brit. J. Dermat., v. 98 (1), 107-112
Rhabditis strongyloides causing pruritic dermatitis in 11-year-old girl, clinical case report, differential diagnosis, family dog as possible source of infection: Poland
- Disease transmission, Animal to man
Piesman, J.; et al., 1979, J. Med. Entom., v. 15 (5-6), 537-540
Babesia microti not found in Odocoileus virginianus naturally or experimentally inoculated, nor in vector Ixodes dammini: Nantucket and Naushon Islands, Massachusetts
- Disease transmission, Animal to man
Rai, P., 1976, U. P. Vet. J., v. 4 (2), 52-54
fish borne helminthic zoonoses, review: India
- Disease transmission, Animal to man
von Reyn, C. F.; et al., 1978, J. Pediat., St. Louis, v. 93 (2), 247-249
Toxocara cati infection in infant girl, adult female worm removed from child's anus, adult worm also removed from litter box of family pet cats; need for diagnostic differentiation from Ascaris lumbricoides emphasized: Vermont
- Disease transmission, Animal to man
Rodriguez Toro, R., 1976, Scient. Pub. (334). Pan Am. Health Organ., 67-76
Leishmania, Echinococcus granulosus, E. multilocularis, role of wildlife in transmission of zoonoses

- Disease transmission, Animal to man
Roman, E., 1978, Bull. Soc. Sc. Vet. et Med. Comp. Lyon, v. 80 (3), 139-145
Taenia taeniaeformis, *Hymenolepis diminuta*, *H. nana*, normal parasites of rats, possibilities of transmission to humans and domestic animals: area of Lyon
- Disease transmission, Animal to man
Rosicky, B., 1978, Ann. Ist. Super. San., Roma, v. 14 (2), 273-286
zoonoses and their association with the adaptation of animals to urbanized areas, review
- Disease transmission, Animal to man
Ruppanner, R.; et al., 1978, Am. J. Vet. Research, v. 39 (5), 867-870
Toxoplasma gondii, goats, prevalence as surveyed serologically, mode of transmission to man, economic and public health aspects: California
- Disease transmission, Animal to man
Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 24-28
ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics
- Disease transmission, Animal to man
Sogorb, F.; Jamra, L. F.; and Giunaraes, E. C., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (1), 36-41
Toxoplasma gondii, stray dogs, survey of saliva and blood samples, clinical examination, saliva from dogs negative, not a major factor in transmission from dog to man: Sao Paulo, Brazil
- Disease transmission, Animal to man
Ulmanen, I.; and Leinikki, P., 1975, Scand. J. Infect. Dis., v. 7 (1), 67-71
Toxoplasma gondii, occurrence of antibodies compared in owners of cats and in controls using the complement fixation and indirect immunofluorescence antibody tests, study confirms that keeping a pet cat does not increase risk of infection but in certain circumstances may pose a risk for human infection
- Disease transmission, Animal to man
Vaage, L.; and Midtvedt, T., 1977, Scand. J. Infect. Dis., v. 9 (2), 135-136
Toxoplasma gondii, frequency of positive toxoplasmin cutaneous test studied in young males, neither keeping of domestic animals or bite by animal altered frequency of positive tests: Norway
- Disease transmission, Animal to man
Woodruff, A. W.; de Savigny, D.; and Jacobs, D. E., 1978, Brit. Med. J. (6154), v. 2, 1747-1748
Toxocara canis antibody survey, enzyme-linked immunosorbent assay values indicate higher degree of infection in dog show breeders and exhibitors than healthy adult controls: Britain
- Disease transmission, Animal to man
World Health Organization, 1979, World Health Org., Tech. Rep. Ser. (637), 107 pp.
parasitic zoonoses
- Disease transmission, Autoinfection
Benchimol, R.; and Benchimol, E., 1973, Rev. Brasil. Oftal., v. 32 (2), 203-204
Phthirus pubis, human infection of right eyelashes, apparently transmitted to lashes after scratching pubic area, case report, cure with mercuric oxide
- Disease transmission, Autoinfection
Bhaibulaya, M.; and Indra-Ngarm, S., 1979, Internat. J. Parasitol., v. 9 (4), 321-322
Capillaria philippinensis, *Amaurornis phoenicurus* and *Ardeola bacchus* as experimental definitive hosts, prepatent periods, occurrence of autoinfection, development of protective immunity
- Disease transmission, Autoinfection
Cross, J. H.; Banzon, T.; and Singson, C., 1978, J. Parasitol., v. 64 (2), 208-213
Capillaria philippinensis, development in *Meriones unguiculatus* given larvae from experimentally infected *Hypselotris bipartita* or fed naturally infected *H. bipartita*, autoinfection is integral part of life cycle, parasite can also be maintained in laboratory by serial passage from gerbil to gerbil, erratic and short-lasting infections developed in *Rattus norvegicus* and *R. rattus* exposed to infection with larvae from experimentally infected fish: Philippines
- Disease transmission, Autoinfection
DePaoli, A.; and Johnsen, D. O., 1978, Vet. Path., v. 15 (1), 31-39
Strongyloides larvae in *Hylobates* lar, necropsy study, clinical signs, pathology, thiabendazole, high morbidity and mortality probably resulting from autoinfection and the hyperinfective syndrome
- Disease transmission, Blood
Alvarez Chacon, R.; Rodriguez Encarnacion, L.; and Diaz Herrera, A., 1974, Salud Pub. Mexico, v. 15 (2), 213-216
Plasmodium malariae, hospitalized children, infected by blood transfusions, clinical aspects of 12 cases, diagnosis, therapy: Mexico, D.F., Mexico
- Disease transmission, Blood
Amato Neto, V.; et al., 1975, Rev. Goiana Med., v. 21 (1-2), 1-9
Trypanosoma cruzi, recipients of multiple blood transfusions, analysis by complement fixation test of the risk of acquiring Chagas disease through transfusion
- Disease transmission, Blood
Amato Neto, V.; dos Santos, R. R.; and Gioia, I., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (3), 129-132
Trypanosoma cruzi, parasite survival in frozen infected human plasma, implications for human plasma transfusions
- Disease transmission, Blood
Ambroise-Thomas, P., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 331-336
human malaria, detection of latent *Plasmodium* carriers, immunofluorescence test, prophylactic survey of potential blood donors

Disease transmission, Blood

- Andrianjafy, M.; Thuillier, M.; and Gandrille, M. C., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (4), 603-604
malaria in young woman given blood transfusions, donor of blood found to have high malarial antibody titers, successful treatment with nivaquine, case report: France

Disease transmission, Blood

- de Araujo, I. F.; Hyakutake, S.; and Sant'Anna, B., 1975, Rev. Farm. e Bioquim. Univ. Sao Paulo, v. 13 (2), 417-425
Toxoplasma gondii, statistics of blood donor survey for prevalence of anti-toxoplasma antibodies: blood banks in Natal, Rio Grande do Norte, Brazil

Disease transmission, Blood

- Becker, P. F. L., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (3), 187-198
T[rypanosoma] cruzi, fatal infection in splenectomized woman with hemolytic anemia and under prolonged corticoid therapy, had received blood transfusion from Chagasic donor, clinical aspects, pathology: Sao Paulo State, Brazil

Disease transmission, Blood

- Besson, P.; et al., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 369-373
human malaria, case reports of infection from blood transfusions, recommendations that the immunofluorescence test be used along with other methods of screening potential donors

Disease transmission, Blood

- Camargo, M. E.; and Leser, P. G., 1974, AMB, Rev. Ass. Med. Brasil., v. 20 (9), 335-336
Trypanosoma cruzi, laboratory diagnosis of unsuspected acute post-transfusion Chagas' disease, 2 case reports: Sao Paulo

Disease transmission, Blood

- Campos, C.; de Rezende, J. M.; and Rassi, A., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (4), 165-174
T[rypanosoma] cruzi, survey of blood donors for evidence of chagasic infection using the Guerreiro and Machado test (recommended as preferred diagnostic method); recommendation that gentian violet be added to all transfusion blood used in endemic areas as an additional precautionary measure

Disease transmission, Blood

- Courtois, F.; et al., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 357-361
human malaria, survey of potential blood donors for specific malarial antibodies, immunofluorescence test, suggested blood donor control measures to prevent disease transmission

Disease transmission, Blood

- Dain, A. L., 1973, Rev. Fac. Cien. Med. Univ. Nac. Cordoba, v. 31 (3), 227-235
Chagas disease, statistics of survey of potential blood donors found to have positive sera, recommendations for possible control measures: Cordoba, Argentina

Disease transmission, Blood

- Faugere, B.; and Ranque, J., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 349-355
human malaria, screening blood donors for possible latent Plasmodium carriers, immunofluorescence test, suggested prophylactic measures

Disease transmission, Blood

- Garfield, M. D.; Ershler, W. B.; and Maki, D. G., 1978, J. Am. Med. Ass., v. 240 (21), 2285-2286
Plasmodium falciparum, human, transmission by platelet concentrate transfusion, case report

Disease transmission, Blood

- Gentilini, M.; et al., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 363-367
human malaria, systematic screening of all potential blood donors recommended using the indirect immunofluorescence test and Plasmodium berghei antigen

Disease transmission, Blood

- Lippi, M., 1977, Rassegna Med. Sarda, v. 80, n.s., v. 29 (1), 59-64
Plasmodium malariae, infections in humans who had received transfusions of blood from infected donor: Sardinia

Disease transmission, Blood

- Ludwig, A. E., 1972, Rev. Ass. Med. Rio Grande do Sul, v. 16 (2), 193-208
new type of file card designed for the selection of blood donors and for computerized data processing in order to identify potential donors who are carriers of Chagas disease and malaria

Disease transmission, Blood

- Najem, G. R.; and Sulzer, A. J., 1976, Transfusion, v. 16 (5), 473-476
Plasmodium malariae, 15-year-old girl, after blood transfusion, blood donor was asymptomatic carrier (from Nigeria) who satisfied currently recommended standards for blood donations: Tennessee

Disease transmission, Blood

- Olivares Lopez, F.; et al., 1977, SPM Salud Pub. Mexico, v. 19 (5), 701-707
Plasmodium malariae, P. vivax, survey of blood transfusion-induced infections, diagnostic problems, chloroquine therapy, problems in blood donor control: Mexico

Disease transmission, Blood

- Raisanen, S., 1978, Transfusion, v. 18 (3), 329-332
Toxoplasma gondii, exper. transmission to rabbits using human blood injected directly into veins or by blood transfusions, implications for infection transmission through banked human blood

Disease transmission, Blood

- Ranque, J., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 315-325
human malaria, transmission by blood transfusion reviewed, prophylactic measures compared and more efficient measures suggested: France

- Disease transmission, Blood
Ring-Larsen, H.; and Jepsen, S., 1979, Ugeskr. Laeger, v. 141 (31), 2129-2130
Plasmodium falciparum, male drug addict infected by using common injection equipment, case report
- Disease transmission, Blood
Saleun, J. P.; Baret, M.; and Dauriac, J., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 337-347
Plasmodium spp., statistics of infection by blood transfusions, cases reported in France from 1960-1974, comparison with statistics from other non-endemic areas
- Disease transmission, Blood
Shkarin, V. V., 1978, Zhurnal Mikrobiol., Epidemiol. i Immunobiol. (2), 132-137
toxoplasmosis, human, prophylactic measures reviewed, recommendations; preventing transmission by blood transfusion
- Disease transmission, Blood
Vittoz, P., 1977, Rev. Franc. Transfus. et Immuno-Hematol., v. 20 (1), 225-234
malaria, toxoplasmosis, screening of blood donors including those with possible parasitic infections
- Disease transmission, Blood
Weller, P. F.; et al., 1978, J. Am. Med. Ass., v. 240 (9), 858-859
Mansonella ozzardi, regular blood donor, tourism-acquired (Caribbean) asymptomatic microfilaremia; no infection in blood recipients; diethylcarbamazine treatment unsuccessful
- Disease transmission, Blood
Werk, R.; and Bommer, W., 1978, Deutsche Med. Wchnschr., v. 103 (41), 1598-1602
Toxoplasma gondii, cells of white blood series and possibly nucleated precursors of red series are receptive to infection but mature erythrocytes cannot be infected, possibility of transmission of toxoplasmosis by blood transfusion can no longer be doubted
- Disease transmission, Control. [See also Animal husbandry; Biological control; Snail control; Technique, Treatment]
- Disease transmission, Control
Alboiu, M.; Popescu, S.; and Negru, D., 1978, Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur, v. 13, 165-171
Trichinella spiralis larvae in experimentally infested swine meat, morphological changes and viability following freezing and cryo-desiccation
- Disease transmission, Control
de Almeida Machado, P., 1979, Bull. Pan Am. Health Organ., v. 13 (1), 33-45
schistosomiasis, program model for short-term control in rural Brazil
- Disease transmission, Control
Andersen, F. L.; and Loveless, R. M., 1978, J. Parasitol., v. 64 (1), 78-82
Echinococcus granulosus, survival time of protoscolices of ovine origin stored at constant temperatures of -20 to 50 C, ability to survive extended periods of time after an infected sheep has died or been killed suggests that stringent preventive and control measures should be established in areas where hydatid disease is endemic
- Disease transmission, Control
Arguedas, J. A.; et al., 1975, Texas Rep. Biol. and Med., v. 33 (2), 265-268
Strongyloides stercoralis, mass treatment of a community with thiabendazole reduced prevalence, 2-year follow-up showed that rate remained low: Costa Rica
- Disease transmission, Control
Arthur, J. R.; Margolis, L.; and Arai, H. P., 1976, J. Fish. Research Bd. Canada, v. 33 (11), 2489-2499
differences in fish parasite fauna between lakes, consequences of interlake transfer by proposed water diversion: Aishihik and Stevens lakes, Yukon Territory
- Disease transmission, Control
Barbour, A. D., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 6-15
schistosomiasis, use of Macdonald's model to establish a policy for controlling human infection, based on human immunity and proportion of infected vector snails in a given area
- Disease transmission, Control
Barnes, C. M.; and Cibula, W. G., 1979, Mosquito News, v. 39 (2), 271-282
applications of satellite remote sensing technology in programs of insect eradication and disease vector control, use in Mexico to support Cochliomyia hominivorax eradication program
- Disease transmission, Control
Belcher, D. W.; Nicholas, D. D.; and Blumenfeld, S. N., 1975, Social Sc. and Med., v. 9 (4-5), 241-248
malaria, humans, interview survey, factors influencing utilization of a prophylaxis program: Ghana
- Disease transmission, Control
Bessonov, A. S., 1978, Veterinariia, Moskva (5), 58-62
helminthozoonoses, measures for prevention and control, review
- Disease transmission, Control
Bhaibulaya, M.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 329-334
human soil-transmitted helminths, clinical trials with pyrantel pamoate given prophylactically to villagers in agricultural areas in an attempt to control spread of infections, mixed results in infection rate findings post treatment: village near Bangkok, Thailand

- Disease transmission, Control
 Botero, D., 1979, Bol. Chileno Parasitol., v. 34 (1-2), 39-43
 soil transmitted helminths, possible control using standard public health measures combined with mass therapy, review of current investigations in several endemic areas
- Disease transmission, Control
 Bratanov, V.; Penchev, P.; and Dinev, P., 1977, Vet. Med. Nauki, v. 14 (2), 45-49
 helminths in sewage, decontamination by electrocoagulation and electroflotation after preliminary treatment with calcium hydroxide: livestock farms, Bulgaria
- Disease transmission, Control
 Breev, K. A., 1977, Ang. Parasitol., v. 18 (4), 194-203
 present trends in development of methodologies for parasite control with regard to environmental protection
- Disease transmission, Control
 Breev, K. A., 1977, Monatsh. Vet.-Med., v. 32 (23), 882-885
 parasite control with minimum impact upon ecosystems, present position and trends
- Disease transmission, Control
 Brohult, J.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 327-331
 malaria, humans, analysis of chemoprophylactic habits and reasons for breakdowns in therapy, small mining town: Yekepa, Liberia
- Disease transmission, Control
 Brohult, J.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 401-405
 Plasmodium falciparum, chloroquine use by non-immunes when in endemic areas, analysis of drug concentrations in human serum during short and long term malaria prophylaxis, recommendations for standard vs. double dosage, clinical implications
- Disease transmission, Control
 Bruce-Chwatt, L. J., 1977, Therap. Gegenw., v. 116 (11), 2166-2181
 malaria, geomedical background on eradication
- Disease transmission, Control
 Bushrod, F. M., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 277-285
 W[ucheria] bancrofti, human, vector infectivity and transmission studies, evaluation of mosquito control measures: Kwale, Tanzania
- Disease transmission, Control
 Busvine, J. R., 1978, Nature, London (5664), v. 273, 604-607
 current problems in control of mosquitoes, review
- Disease transmission, Control
 Camoens, J. K., 1977, Malaysian Vet. J., v. 6 (3), 111-124
 Boophilus microplus, dairy cattle, various control measures discussed but spraying acaricides on pastures shows particular promise: Air Hitam, Johor, Malaysia
- Disease transmission, Control
 Campos, C.; de Rezende, J. M.; and Rassi, A., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (4), 165-174
 T[rypanosoma] cruzi, survey of blood donors for evidence of chagasic infection using the Guerreiro and Machado test (recommended as preferred diagnostic method); recommendation that gentian violet be added to all transfusion blood used in endemic areas as an additional precautionary measure
- Disease transmission, Control
 Cedillos, R. A.; Warren, M.; and Jeffery, G. M., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 466-472
 Plasmodium vivax, humans, 2 regimens of primaquine (5-day; single dose) in combination with amodiaquine compared with amodiaquine alone, field evaluation: Zapotitan Valley, El Salvador
- Disease transmission, Control
 Christensen, H. R.; and Clark, B. L., 1979, Austral. Vet. J., v. 55 (4), 205 [Letter]
 Tritrichomonas foetus, prevalence in replacement bulls 4 years after introduction to infected herd, observations suggest routine culling of bulls at 4 years of age to minimize transmission: north-western Queensland
- Disease transmission, Control
 Clarkson, M. J., 1978, Vet. Rec., v. 102 (12), 259-261
 hydatidosis in man and domestic animals, public health importance, economic losses, suggested eradication schemes: Wales
- Disease transmission, Control
 Coppedge, J. R.; et al., 1978, J. Econom. Entom., v. 71 (3), 483-486
 Cochliomyia hominivorax, development and field evaluation of bait system (SWASS) containing dichlorvos and bait for suppression of adult screwworms
- Disease transmission, Control
 Coppedge, J. R.; et al., 1978, J. Econom. Entom., v. 71 (4), 579-584
 Cochliomyia hominivorax, evaluation of screwworm adult suppression system (SWASS), a bait-toxicant system using swormlure-2 and dichlorvos, elimination by SWASS coupled with later release of sterile screwworms: Curacao
- Disease transmission, Control
 Coppedge, J. R.; et al., 1979, J. Econom. Entom., v. 72 (1), 40-42
 Cochliomyia hominivorax, fluorescein sodium as dye for internally marking adults feeding on Screwworm Adult Suppression System units, excellent technique for evaluating relative effectiveness of various insecticides
- Disease transmission, Control
 Coppedge, J. R.; Ahrens, E. H.; and Snow, J. W., 1978, J. Econom. Entom., v. 71 (4), 573-575
 Cochliomyia hominivorax, swormlure-2 baited traps for detection of native fly populations, trial survey, use in developing fly-release strategies: 12 south Texas counties

- Disease transmission, Control
Cornille Broegger, R.; et al., 1978, Bull. World Health Organ., v. 56 (4), 579-600
Plasmodium falciparum, P. malariae, changing patterns in humoral immune response before, during, and after application of control measures: Nigeria
- Disease transmission, Control
Cotteleer, C.; and Fameree, L., 1976, Vet. Med. Rev. (2), 196-202
fascioliasis, cattle, bilèvon-R treatment combined with prophylactic decontamination of pastures with frescon evaluated during 3-year control scheme
- Disease transmission, Control
Crossland, N. O., 1977, Advances Drug Research, v. 12, 53-88
Fasciola, Schistosoma, mammals, life cycles, relation between parasite numbers and effects of disease, use of incidence and prevalence data to estimate efficiency of control programmes, host and parasite population dynamics, mathematical models, integration of control methods
- Disease transmission, Control
Davies, J. B.; et al., 1978, Mosquito News, v. 38 (4), 466-472
Onchocerca volvulus, transmission reduction by attacking larval stage of vector (Simulium damnosum) with temephos sprayed into rivers from aircraft, good control in center of test area but dangerous transmission continues on perimeters: Volta River Basin, West Africa
- Disease transmission, Control
Departamento de Malaria y Otras Enfermedades Parasitarias de la OPS, 1978, Bol. Ofic. San. Panamer., v. 85 (4), 348-358
malaria, control, measures applicable to different epidemiologic situations: the Americas
- Disease transmission, Control
Derr-Harf, C.; et al., 1978, Ann. Parasitol., v. 53 (5), 467-477
isolation of 164 strains of free-living amoebae from public water supplies and swimming pools, some strains of Acanthamoeba polyphaga, A. castellanii, A. lenticulata, and A. comandoni were pathogenic for mice, none of the Naegleria isolated were pathogenic for mice, levels of bromine and chlorine used were insufficient to eliminate these amoebae, potential danger to users and suggested control measures: Strasbourg
- Disease transmission, Control
Dias, J. A. T. S.; Goncalves, A. C. B.; and Martins, J. N. O., 1971, Rev. Cien. Vet., Lourenco Marques, s. B, v. 14, 5-144
trypanosomiasis, bovine, extensive description of control program, results, and prospects: region of Muda (Sofala district)
- Disease transmission, Control
Dias, L. C. S.; and Baruzzi, R. G., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 210 [Letter]
malaria, children, prevalence, comparison with findings prior to start of control program: Xingu Indian Reservation, Mato Grosso State, Brazil
- Disease transmission, Control
Dudley, B. W.; and Lease, E. J., 1973, South. Med. J., v. 66 (10), 1100, 1126
ascariasis, schoolchildren, disease control using repetitive treatment (piperazine or pyrantel pamoate) on a mass therapy basis: South Carolina
- Disease transmission, Control
Dunn, F. L., 1979, Bull. World Health Organ., v. 57 (4), 499-512
behavioral aspects of control of parasitic diseases, review
- Disease transmission, Control
Eaton, R. D. P., 1979, Canad. Med. Ass. J., v. 120 (1), 22 [Letter]
Trichinella spiralis, Arctic strain, evidence that meat is not rendered safe from trichinosis by freezing at any temperature for any length of time
- Disease transmission, Control
Euzeby, J.; and Gevrey, J., 1979, Rev. Med. Vet., Toulouse, v. 130 (8-9), 1149-1150, 1155-1160
fascioliasis and strongylosis, sheep on naturally dry and artificially irrigated pastures, plan for anthelmintic prophylaxis: Spain
- Disease transmission, Control
Flower, P. J., 1978, Trop. Animal Health and Prod., v. 10 (4), 207-213
Psoroptes ovis, sheep, course of disease outbreak, problems in attempting to limit its spread, partial control achieved through dipping in diazinon DFF backed by legislation: Lesotho
- Disease transmission, Control
Forstner, M. J., 1973, Tieraerztl. Prax., v. 1 (1), 119-126
parasitic problems associated with disposal of sewage, sludge, and wastes of domestic animals, suggested control measures: West Germany
- Disease transmission, Control
Forstner, M. J., 1977, Berl. u. Munchen. Tierarztl. Wchnschr., v. 90 (2), 37-42
transmission of parasitic diseases of livestock by stable manure, waste water, and sludges, preventive measures, review
- Disease transmission, Control
Fox, J. E., 1978, Mod. Vet. Pract., v. 59 (8), 599-603
bovine coccidiosis, review, emphasis on prevention and control; field tests, decoquinate against Eimeria bovis and E. zuernii prevented clinical signs of disease with no observable signs of toxicity
- Disease transmission, Control
de Freitas, C. A., 1975, Rev. Brasil. Malar. iol., v. 26-27, 1974-1975, 61-92
Trypanosoma cruzi, humans, discussion of epidemiology and control measures in Brazil
- Disease transmission, Control
Gabaldon, A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 653-658
human malaria, review and evaluation of current disease control measures, possible new measures

- Disease transmission, Control
Gemmell, M. A., 1978, Vet.-Med. Nachr. (1), 3-43
hydatidosis and cysticercosis, potential for treatment, review
- Disease transmission, Control
Gemmell, M. A., 1978, Vet. Med. Rev. (1), 3-48
hydatidosis, cysticercosis, control, extensive review
- Disease transmission, Control
Gemmell, M. A., 1979, Austral. Vet. J., v. 55 (3), 118-125
hydatidosis control, a global view: epidemiological considerations; setting up control programs; control methods and progress
- Disease transmission, Control
Genov, G.; et al., 1975, Ang. Parasitol., v. 16 (4), 202-207
Taeniarhynchus saginata, humans, incidence in relation to host age, sex, occupation, and geographic locality, prophylaxis: 5 districts of Bulgaria
- Disease transmission, Control
Georgi, J. R.; et al., 1979, Am. J. Vet. Research, v. 40 (6), 829-831
Filaroides hirthi, beagle dogs, coprophagia is principal mechanism of transmission from dams to pups and among pups, control by albendazole treatment of brood bitches coupled with isolation of weanlings and older pups from sources of contaminated feces
- Disease transmission, Control
Grabda, J., 1974, Ann. Acad. Med. Stetinensis, suppl. 10, 47-52
Anisakis simplex larvae, survival in salted-spiced herring and mackerel, depended upon concentration of salt used as well as period of storage in brine, recommendations to processing industry on proper processing
- Disease transmission, Control
Graham, O. H.; and Hourrigan, J. L., 1977, J. Med. Entom., v. 13 (6), 629-658
arthropod parasites of livestock, eradication programs, review
- Disease transmission, Control
Hall, A. P., 1978, Brit. Med. J. (6141), v. 2, 877-879
malaria, British travellers to endemic areas, suggested control measures
- Disease transmission, Control
Hammant, C. A., 1977, Rhodesian Vet. J., v. 8 (4), 67-70
ticks, resistance survey of field strains to commonly used ixodicides, changeover from arsenic to dioxathion dipping of cattle, dramatic improvement in tick control, necessitates complete overhaul of dipping facilities and retraining of personnel: Tribal Trust Lands of Rhodesia
- Disease transmission, Control
Haynes, N. B., 1978, Keeping livestock healthy, 323 pp., illus.
parasites and other diseases of farm animals, veterinary guide to disease prevention
- Disease transmission, Control
Hedman, P.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 317-325
malaria, humans, pocket of controlled infection in a holoendemic region, evaluation of local malaria programme by malariometric study: Yekepa, Liberia
- Disease transmission, Control
Hiepe, T.; et al., 1974, Ang. Parasitol., v. 15 (2), 57-67
Hypoderma bovis, cattle, results of state-directed control program for eradication in the German Democratic Republic
- Disease transmission, Control
Hilwig, R. W.; Cramer, J. D.; and Forsyth, K. S., 1978, Vet. Parasitol., v. 4 (3), 215-219
Taenia saginata, freezing times and temperatures required to kill cysticerci in beef
- Disease transmission, Control
Hoffman, D. B., jr.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 249-259
schistosomiasis, humans, evaluation of current control measures, recommendations for future strategies, report of workshop held in Bellagio, Italy
- Disease transmission, Control
Holland-Moritz, W.; Nickel, S.; and Hiepe, T., 1977, Monatsh. Vet.-Med., v. 32 (23), 889-893
Fasciola hepatica, calves, Galba truncatula, epizootiology (ameliorated and unameliorated pastures, population density of G. truncatula, soil structure, vegetation, hydrological and climatic factors); importance of melioration for complex fascioliasis control program: Potsdam, East Germany
- Disease transmission, Control
Hopkins, D. E.; and Chamberlain, W. F., 1978, J. Econom. Entom., v. 71 (1), 25-26
Bovicola limbatus, 3rd instars, relationship between inhibition of ecdysis and time and quantity of ingestion of diflubenzuron (inhibitor of cuticle deposition), inhibition of ecdysis increased progressively as age of nymphs increased, timing of treatment important for control
- Disease transmission, Control
Hourrigan, J. L., 1977, J. N. York Entom. Soc., v. 85 (4), 217-220
bovine babesiosis, epizootiology, history and current status of Boophilus spp. eradication in Texas
- Disease transmission, Control
Ismail, I. A. H.; Phinichpongse, S.; and Boonrasri, P., 1978, Acta Trop., v. 35 (1), 69-82
Anopheles minimus (malaria vector), responses to DDT residual spraying in cleared forested foothill area, appeared to reduce estimated vectorial capacities but effect was not maintained and malaria transmission was not interrupted: central Thailand
- Disease transmission, Control
Jobin, W. R., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 142-154
schistosomiasis control, 6 pilot projects, review with emphasis on cost of molluscicide programs

Disease transmission, Control

Jordan, A. M., 1978, *Nature*, London (5664), v. 273, 607-609
principles of eradication or control of tsetse flies, review

Disease transmission, Control

Jordan, P.; et al., 1978, *Bull. World Health Organ.*, v. 56 (1), 139-146
Schistosoma mansoni, evaluation of experimental mollusciciding program to control transmission: St. Lucia

Disease transmission, Control

Jordan, P.; et al., 1978, *Bull. World Health Organ.*, v. 56 (6), 965-973
Schistosoma mansoni, humans, results of control program that provided piped water supply to households vs. use of public standpipe system, 2-year follow-up: St Lucia

Disease transmission, Control

Jordan, P.; and Unrau, G. O., 1978, *Trop. Doctor*, v. 8 (1), 13-18
[*Schistosoma*] *mansoni*, recommendations for construction of simple water supplies to reduce transmission of parasitic infections

Disease transmission, Control

Keystone, J. S.; Krajden, S.; and Warren, M. R., 1978, *Canad. Med. Ass. J.*, v. 119 (3), 241-248

Giardia lamblia, epidemiology of outbreak in day-care nurseries, transmission apparently person-to-person, more Canadian children were symptomatic and infected than were immigrant children attending the nurseries, infections cleared with metronidazole or atabrine, control measures suggested including treatment of all infected children regardless of whether they were symptomatic: Toronto, Canada

Disease transmission, Control

Khudaverdiev, T. P., 1977, *Veterinariia*, Moskva (3), 72-74
[*Onchocerca* sp.], cattle, seasonal distribution, fly vectors, control with chlorophos: Nakhichevansk ASSR

Disease transmission, Control

Kilgour, V.; and Godfrey, D. G., 1978, *Trop. Animal Health and Prod.*, v. 10 (3), 145-148
Trypanosoma vivax, Nigerian trade cattle, use of lorries for cattle transport from northern grazing areas to south-western markets, important factor in reduced infection rate: Nigeria

Disease transmission, Control

King, J. B.; and Brooke, J. P., 1977, *Mosquito News*, v. 37 (3), 358-361
vector-borne diseases including cutaneous leishmaniasis, programme for integrated control of insect vectors (medical treatment, veterinary and entomological measures)

Disease transmission, Control

van Knapen, F.; Franchimont, J. H.; and Otter, G. M., 1979, *Brit. Med. J.* (6174), v. 1, 1320
Toxocara eggs, steam sterilisation of infected sandpits

Disease transmission, Control

Krasnonos, L. N., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (2), 186-189
ascariidosis microfoci, eggs from soil treated with carbathion, invasive capacity reduced

Disease transmission, Control

Krubwa, F.; et al., 1974, *Ann. Soc. Belge Med. Trop.*, v. 54 (3), 167-176
intestinal nematodes, heavily infected native population, effect of various regimens of levamisole administered over 1-year period on the prevalence and intensity of infection, results differed but levamisole seemed ideal anthelmintic for mass campaigns: Ndjili, Kinshasa, Zaire

Disease transmission, Control

Kumar, V.; et al., 1978, *Acta Zool. et Path. Antverpiensia* (70), 221-225
helminthiasis in wild mammals and birds of zoological gardens, need for control through preventive and chemotherapeutic measures; summary of observations on use of mebendazole in mammals and birds and of methyridine in pheasants: Antwerp Zoo

Disease transmission, Control

Kunstyr, I.; and Ammerpohl, E., 1978, *Lab. Animals*, v. 12 (2), 95-97
Spironucleus muris, faecal cysts, resistance to physical and chemical factors tested, data may be useful for control of infection in rodents and for cryopreservation of parasite

Disease transmission, Control

Laracuent, A.; Brown, R. A.; and Jobin, W., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 99-105
Schistosoma mansoni, evaluation of 4 species of aquatic snails as decoys to intercept miracidia, laboratory and field trials: Puerto Rico

Disease transmission, Control

Lopez Rico, A., 1977, *SPM Salud Pub. Mexico*, v. 19 (4), 537-542
taeniasis, cysticercosis, human, domestic animals, state programs of epidemiological surveillance and control: state of Veracruz, Mexico

Disease transmission, Control

McConnell, J. D.; and Green, R. J., 1979, *Austral. Vet. J.*, v. 55 (3), 140-145
hydatid disease control program, description, results: Tasmania

Disease transmission, Control

Maunder, J. W., 1977, *Roy. Soc. Health J.*, v. 97 (1), 29-32
human lice, biological facts, transmission, control, clinical review

Disease transmission, Control

Medda, A., 1973, *Rassegna Med. Sarda*, v. 75 [i.e. v. 76], n.s., v. 24 [i.e. v. 25] (5), 297-304
Echinococcus granulosus, decreasing incidence in *Canis familiaris* from 1959 to present time, apparent result of anti echinococcosis campaign carried out by the Regional Government of Sardinia

Disease transmission, Control

Moll, G., 1977, 3. Externe Veterinartagung, Ber. u. Arbeitsergebn. (40), 209-215
tick control, livestock, current program evaluated: Kericho-Distrikt, West-Kenya

- Disease transmission, Control
Morin, P.; et al., 1974, *Semaine Hop. Paris*, v. 50 (20), 1359-1363
Toxoplasma gondii, pregnant women, measures instituted in hospital maternity ward to prevent and control prenatal infections: Lariboisiere Hospital Maternity Unit
- Disease transmission, Control
Najera-Morrondo, J. A., 1979, *Bull. Pan Am. Health Organ.*, v. 13 (3), 223-234
malaria, suggested approach to control, methodology applicable in different epidemiologic situations: the Americas
- Disease transmission, Control
Negron-Aponte, H.; and Jobin, W. R., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 515-525
schistosomiasis, update on control program initiated in 1953 in Puerto Rico
- Disease transmission, Control
Norval, R. A. I., 1977, *Rhodesian Vet. J.*, v. 8 (4), 60-66
ticks mainly of humans and domestic animals, population dynamics in absence of cattle dipping operations, incidence of tick-borne disease, regional distribution related to climate, land utilization, and dipping: Kandeya Tribal Trust Land, northeast Rhodesia
- Disease transmission, Control
Norval, R. A. I., 1978, *Rhodesian Vet. J.*, v. 9 (1-4), 9-16
ticks, cattle, significant increase in tick infestations and outbreaks of tick-borne diseases following collapse of dipping (1973-1978): African areas in Rhodesia
- Disease transmission, Control
Omer, A. H. S., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 858-863
Plasmodium spp., human, prevalence by parasite species and by host age group, dramatic response to mass chemoprophylaxis with chloroquine: Gezira and Bor regions, Sudan
- Disease transmission, Control
Owen, D., 1978, *Lab. Animals*, v. 12 (2), 49-50
Eimeria stiedae, E. intestinalis, standard rabbit diet heavily contaminated with oocysts, sterilization by autoclaving and irradiation was satisfactory for elimination of oocysts from diet but pelleting even at 68° was unsatisfactory
- Disease transmission, Control
Partono, F.; Purnomo; and Soewarta, A., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 536-542
Brugia timori, mass therapy with diethylcarbamazine followed 1 year later by short term selective re-treatment, simple control method: Flores, Indonesia
- Disease transmission, Control
Pitchford, R. J., 1970, *South African Med. J.*, v. 44 (16), 475-477
bilharziasis, humans, gradual reduction in infection rates after environmental control measures and mass therapy introduced in the Eastern Transvaal
- Disease transmission, Control
Pokrovskii, S. N.; et al., 1976, *Med. Parazit. i Parazitar. Bolezni*, v. 45 (2), 131-135
ascariasis, human, results of mass control program 1963-1974: Briansk oblast
- Disease transmission, Control
Pugh, R. N. H., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 191-192
Schistosoma haematobium-infected boys treated 12 months earlier with metrifonate, follow-up intravenous urograms support significance of annual chemotherapy programmes in reducing morbidity in boys and in reducing environmental contamination: Malumfashi area, northern Nigeria
- Disease transmission, Control
Rebello, L. M.; and Verma, S. P., 1977, *Social Sc. and Med.*, v. 11 (1), 43-53
malaria, humans, surveillance activities of Basic Health Workers as part of control measures of rural villages of Haryana State, India
- Disease transmission, Control
Reed, J. T.; Passingham, L. H.; and Grothaus, R. H., 1977, *J. Med. Entom.*, v. 14 (1), 134-135
Eutrombicula alfreddugesi, immediate reduction of chigger populations by forest litter burning, increased numbers of host animals attracted to burned areas greatly reduced impact of initial control
- Disease transmission, Control
Ricetti, R. V., 1975, *Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo*, v. 12, 259-268
Cysticercus cellulosae-infected swine carcasses, sodium chloride treatment, length of storage necessary to render meat safe for consumption, comparison with refrigeration
- Disease transmission, Control
Rousseau, M., 1975, 25. *Internat. Apicult. Cong. (Grenoble, Sept. 8-14)*, 394-398
Nosema apis, bees, prophylactic control by sanitation and other management tactics, drugs used only on supplementary basis
- Disease transmission, Control
Rykovskii, A. S., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 22, 145-147
hunting as factor in control of wildlife parasites, e. g.: elimination of diseased animals as form of natural selection; brief review
- Disease transmission, Control
Rykovskii, A. S., 1974, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 24, 144-152
helminth fauna composition in wild ungulates in agricultural and forestry conditions, possible source of livestock infection, review, suggested measures for control: European part of SSSR
- Disease transmission, Control
Salimov, B., 1977, *Veterinariia, Moskva* (8), 71-72
dicrocoeliosis, sheep, control, detection of infected pastures, eradication of intermediate hosts: Samarkand
- Disease transmission, Control
Saliternik, Z., 1979, *Trop. and Geogr. Med.*, v. 31 (2), 175-184
Schistosoma mansoni, S. haematobium, human, control and eradication, historical review: Israel

- Disease transmission, Control
Sandbach, F. R., 1975, Social Sc. and Med., v. 9 (10), 517-527
S[chistosoma] spp., human, control measures, critical assessment of present policy and suggestions for new emphasis on environmental sanitation, safe water supplies and health education
- Disease transmission, Control
Sandbach, F. R., 1977, Social Sc. and Med., v. 11 (1), 27-33
S[chistosoma] japonicum, anti-schistosomiasis campaign traced from 1949 Revolution up to Cultural Revolution in China
- Disease transmission, Control
Sastry, S. C.; et al., 1978, J. Trop. Med. and Hyg., v. 81 (8), 156-158
guinea worm, humans, trials using abate to control cyclops vector, encouraging results, definite fall in infection incidence during year following application to drinking water: Andhra Pradesh, India
- Disease transmission, Control
Schwabe, C. W., 1979, Austral. Vet. J., v. 55 (3), 109-117
hydatid disease, epidemiological aspects of planning and evaluation of control programs, review
- Disease transmission, Control
Seawright, J. A.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 155-160
Anopheles albimanus, computer simulation of effectiveness of releasing male-linked translocation heterozygotes as control measure, malaria subroutine included in model
- Disease transmission, Control
Shiff, C. J., 1970, South African Med. J., v. 44 (7), 167-168
bilharzia control, for rapid reduction of prevalence of parasites, molluscicides are best combined with improved hygiene and sanitation, and suppressive chemotherapy: Africa
- Disease transmission, Control
Shiff, C. J.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 375-380
Schistosoma haematobium, seasonal patterns in transmission, epidemiology in school children, control by winter application of molluscicides: Rhodesia
- Disease transmission, Control
Sinha, R. P.; and Dubey, R. K., 1978, Indian Vet. J., v. 55 (5), 372-376
Anaplasma marginale outbreak in non-preimmune Jersey cattle imported from United States and Denmark to farm in Bihar, clinical symptoms and pathological findings, epizootiological factors responsible for outbreak (high ambient temperature, stress of vaccination for rinderpest virus, presence of tick vectors), control achieved through chemotherapy of sick and healthy animals, removal of vectors, and housing in cool sheds; outbreaks in exotic herds could be avoided if cattle were imported in early winter: India
- Disease transmission, Control
Slonka, G. F.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 101-105
Taenia saginata, cattle, outbreak of cysticercosis attributed to one feedlot, infected feedlot worker was probable source of infection, recommendations for preventing similar epizootics: southern California
- Disease transmission, Control
Sutherst, R. W.; et al., 1979, J. Applied Ecol., v. 16 (2), 359-382
Boophilus microplus, cattle, analysis of 3 control methods used separately and in combination (acaricides, pasture spelling, tick-resistant cattle), computer model of tick population: Australia
- Disease transmission, Control
Thacker, S. B.; et al., 1979, Am. J. Pub. Health, v. 69 (12), 1279-1281
Entamoeba histolytica, Giardia lamblia, control attempts in a residential facility for mentally retarded persons: Washington, D. C.
- Disease transmission, Control
Thompson, K. C.; Roa E., J.; and Romero N., T., 1978, Trop. Animal Health and Prod., v. 10 (3), 179-182
Boophilus microplus, 6 grass species analysed for anti-tick deterrent properties
- Disease transmission, Control
Thylefors, B.; Philippon, B.; and Prost, A., 1978, Tropenmed. u. Parasitol., v. 29 (3), 346-354
Onchocerca volvulus, humans from 4 villages in endemic areas, correlations between quantity of transmission and intensity of infection, applications for vector control programs: Sudan-savanna areas in Upper-Volta and Ivory Coast
- Disease transmission, Control
Tongson, M. S., 1978, Philippine J. Vet. Med., v. 17 (1-2), 106-120
Fasciola gigantica, F. hepatica, life cycle review, control programs: Philippines
- Disease transmission, Control
Venkateswara Rao, P.; et al., 1977, Riv. Parasitol., Roma, v. 38 (1), 13-21
Prosthogonimus sp. cercariae, cercaricidal effect of certain common fertilizers, ammonium sulphate may be cercaricide of choice
- Disease transmission, Control
Walsh, J. F.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 675-676
standardization of criteria for assessing effect of Simulium control in onchocerciasis control programs
- Disease transmission, Control
Warren, K. S.; and Mahmoud, A. A. F., 1976, Tr. Ass. Am. Physicians, v. 89, 195-204
schistosomiasis, humans, new approach in control measures, targeted mass treatment directed toward relatively small numbers of heavily infected individuals, successful field project carried out in village of Lower Nduu, Kenya

- Disease transmission, Control
Watts, J. E.; Dash, K. M.; and Lisle, K. A., 1978, *Austral. Vet. J.*, v. 54 (7), 352-355
diarrheic feces caused by helminth infection predispose sheep to breech strike, anthelmintic treatment and other management factors reduced incidence of breech strike: New South Wales
- Disease transmission, Control
Whitlock, J. H., 1978, *Cornell Vet.*, v. 68 (2), 250-251
trichostrongyloids, construction of a permanent campground for sheep in attempt to control parasites based on knowledge of sheep behavior
- Disease transmission, Control
Wilkinson, P. R., 1977, *J. Med. Entom.*, v. 13 (6), 713-718
Dermacentor andersoni, herbicidal killing of shrubs caused no significant reduction in tick numbers: 4 sites near Kamloops, British Columbia
- Disease transmission, Control
Yeoman, G. H.; and Bell, T. A., 1978, *Vet. Rec.*, v. 103 (15), 337
Lucilia sericata, sheep, aluminium alkoxide gellants mixed with insecticide and applied to breech area, results suggest that this new control method against cutaneous myiasis gives higher protection than current means of control with no abnormal problems of toxicity, tissue residues, or wool processing
- Disease transmission, Control
Yu, W.; et al., 1974, *Tung Wu Hsueh Pao (Acta Zool. Sinica)*, v. 20 (3), 211-219
Schistosoma japonicum, eradication of *Oncomelania* snail vectors, intense ecological management practices, weed control, surveillance: China
- Disease transmission, Feces. [See also Disease transmission, Soil; Disease transmission, Water; Manure; Night soil]
- Disease transmission, Feces
Arroyo, R.; and Morera, P., 1978, *J. Parasitol.*, v. 64 (1), 146
Angiostrongylus costaricensis, survival time of first stage larvae in rat feces
- Disease transmission, Feces
Axton, J. H. M., 1972, *South African Med. J.*, v. 46 (10), 258-259
Entamoeba histolytica, 21-day-old African female infant, case report, amoebic proctocolitis and liver abscess, probable source of infection was fecal contamination at birth, successfully treated with metronidazole
- Disease transmission, Feces
Engbaek, K., 1978, *Ugeskr. Laeger*, v. 140 (1), 14-17
Giardia lamblia and other intestinal parasites of children in day-nurseries and kindergartens, incidence, clinical symptoms, management: Denmark
- Disease transmission, Feces
Farquhar, A. S.; Anthony, W. B.; and Ernst, J. V., 1979, *J. Animal Sc.*, v. 49 (5), 1331-1336
Fimeria bovis oocysts in manure-blended diet, adequate ensiling prevents sporulation
- Disease transmission, Feces
Georgi, J. R.; et al., 1979, *Am. J. Vet. Research*, v. 40 (6), 829-831
Filaroides hirthei, beagle dogs, coprophagia is principal mechanism of transmission from dams to pups and among pups, control by albendazole treatment of brood bitches coupled with isolation of weanlings and older pups from sources of contaminated feces
- Disease transmission, Feces
Marzochi, M. C. de A., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (3), 148-155
enteroparasitic cysts and eggs, contamination of green vegetables and kitchen garden soils, epidemiological survey, most commonly found during dry-season when fecal polluted brooks were used for irrigation: Ribeirao Preto, Sao Paulo, Brasil
- Disease transmission, Feces
Pegg, E. J.; and Donald, C. R., 1978, *J. Inst. Animal Techn.*, v. 29 (2), 29-30
nematode eggs, effects of composting on viability of eggs recovered from compost material and soil beneath after 12-month period, recommended that kennel waste be subjected to slow combustion burning before disposal
- Disease transmission, Feces
Schaffert, R. M.; and Strauch, D., 1978, *Ann. Ist. Super. San.*, Roma, v. 14 (2), 295-300
helminths and salmonellae in dog droppings from public parks and playgrounds, seasonal survey: Federal Republic of Germany
- Disease transmission, Feces
Smith, D. D.; and Frenkel, J. K., 1978, *J. Parasitol.*, v. 64 (2), 315-319
Sarcocystis muris, *Toxoplasma gondii*, *Isospora* spp., experimental transmission to mice by ingestion of *Blatella germanica* and *Periplaneta americana* exposed to cat feces containing these coccidia or by direct ingestion of the feces, results indicate possible role of cockroaches as transport hosts and sources of cross-infection in laboratories, need for stringent control
- Disease transmission, Feces
Soroczan, W., 1977, *Acta Parasitol. Polon.*, v. 24 (20-27), 259-267
Strongyloides stercoralis, life cycle, larval survival and development under different conditions of temperature, humidity, and pH in soil, water, feces, hogwash, and cow dung, potential for transmission under climatic conditions of Poland
- Disease transmission, Feces
Taylor, R. L.; and Lott, M., 1978, *J. Protozool.*, v. 25 (1), 105-106
Myxosoma cerebralis, transmission of whirling disease to *Salmo gairdneri* by feces of birds (*Anas platyrhynchos*, *Nycticorax nycticorax*) fed infected trout, first report that spores are still viable after passage through birds, necessity of maturation of spores in mud
- Disease transmission, Feces
Thornton, H., 1977, *Rhodesian Vet. J.*, v. 8 (4), 77-78
Cysticercus bovis, cattle, infection acquired on land contaminated by human feces, suggested control measures: Mtoko district, Rhodesia

Disease transmission, Food

Arambulo, P. V. III; Cabrera, B. D.; and Tongson, M. S., 1976, Proc. 19. Ann. Meet., Am. Ass. Vet. Lab. Diagn., 123-154
 taeniasis, cysticercosis, humans, endemicity, failure to demonstrate *Taenia saginata* in indigenous animals or to produce infection in experimental hosts suggests that human parasite is possibly a *T. saginata*-like species; *T. solium* apparently obtained through human consumption of raw pork, survey of incidence in food animals: Philippines

Disease transmission, Food

Azinge, N. O.; et al., 1978, J. Trop. Med. and Hyg., v. 81 (5), 76-79
Armillifer armillatus, calcified nymphs in 65-year-old man, survey of his household group, history of eating snakes: Ayogwiri Village (near Auchil), Bendel State, Nigeria

Disease transmission, Food

Baer, J. G., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 717-723
Diphylllobothrium pacificum from man and sea lions, review, probable mode of human infestation is through national dish known as 'cebiche': Peru

Disease transmission, Food

Barretto, M. P.; Ribeiro, R. D.; and Belda Neto, F. M., 1978, Rev. Brasil. Biol., v. 38 (2), 455-459
Trypanosoma cruzi, infection of vertebrate hosts by feeding them infected triatomines or infected rats and mice demonstrates importance of oral route of transmission

Disease transmission, Food

Bhaibulaya, M.; Indra-ngarm, S.; and Ananthapruiti, M., 1979, Internat. J. Parasitol., v. 9 (2), 105-108
Capillaria philippinensis, freshwater fish of Thailand as experimental intermediate hosts

Disease transmission, Food

Bygbjerg, I. C.; and Rask, M. P., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 54-55
Armillifer armillatus, abdominal pentastomiasis in man (in tumor of omentum, on peritoneum of intestines and abdominal wall) with associated cancer of colon, case report, infection possibly originated from drinking water contaminated by snakes or from eating snake or crocodile meat: Zaire

Disease transmission, Food

Carlier, J. C.; Bouree, P.; and Bach, C., 1977, Semaine Hop. Paris, v. 53 (13), 765-771 (Ann. Pediat., Paris, v. 24 (4), 301-309)
Trichinella spiralis, children, report of epidemic possibly resulting from consumption of horse meat, diagnosis confirmed by immunofluorescence, clinical management: south of Paris

Disease transmission, Food

de Carneri, I.; and Trane, F., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 533
Giardia muris, infection of fasting mice by feeding with pellets contaminated with controlled number of trophozoites

Disease transmission, Food

Carroz, J. R., 1977, Schweiz. Arch. Tierh., v. 119 (10), 425-431
Toxoplasma, cattle, pigs, Sabin-Feldman dye test; no evidence of infective *Toxoplasma* in meat stored between 0 and 4°C for 3 weeks, proper cooking of meat excludes the possibility of transmitting toxoplasmosis: Lausanne abattoir

Disease transmission, Food

Chambers, P. G., 1978, Trop. Animal Health and Prod., v. 10 (2), 74
Echinococcus granulosus, incidence in slaughtered cattle (liver, lungs), 1971-1976; lungs and livers of slaughtered cattle used as pet food may be potential health hazard, special attention to apical and cardiac lobes of lungs needed during routine meat inspection: Rhodesia

Disease transmission, Food

Chana, T. S., 1975, Bull. Animal Health and Prod. Africa, v. 23 (1), 87-93
 cysticercosis, wildebeeste, incidence and intensity, implications for human consumption of meat, problem appears to be of aesthetic rather than public health importance since cysts are not *Cysticercus bovis*, recommendations for meat inspection regulations: Kenya

Disease transmission, Food

Cho, S. Y.; et al., 1974, Taehan Uihak Hyophoe Chi (J. Korean Med. Ass.), v. 17 (5), 367-371
Sparganum mansoni, 2 soldiers (scrotal sac, lower back), had eaten raw snakes and frogs during survival training: Korea

Disease transmission, Food

Chu, G. S. T.; Palmieri, J. R.; and Sullivan, J. T., 1977, Trop. and Geogr. Med., v. 29 (4), 422-427
Hymenolepis diminuta in *Palembus dermestoides* (exper.); beetle-eating as a Malaysia folk medical practice and its public health implications: Kuala Lumpur

Disease transmission, Food

Dada, B. J. O.; and Usman, S., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 297-298
Taenia saginata, possible role of traditional preparation of Suya (native beef dish) in the epidemiology of human taeniasis in the Zaria area, Nigeria

Disease transmission, Food

Eyckmans, L.; Vandepitte, J.; and Vandembroucke, J., 1971, Tijdschr. Gastro-enterol., v. 14 (2), 90-96
Fasciola hepatica-infected humans, 3 case reports, ingesting wild watercress probable source of infection: Belgium

Disease transmission, Food

Farquhar, A. S.; Anthony, W. B.; and Ernst, J. V., 1979, J. Animal Sci., v. 49 (5), 1331-1336
Eimeria bovis oocysts in manure-blended diet, adequate ensiling prevents sporulation

Disease transmission, Food

Glazkov, G. A.; Klimshin, A. A.; and Krivenko, V. V., 1979, Gig. i Sanitariia (8), 53-55
 opisthorchiasis, method for inspecting fish for metacercariae and determining their viability

- Disease transmission, Food
Golubkov, V. I., 1978, Veterinariia, Moskva (5), 98-99
S[arcocystis] fusiformis, viability in meat and meat products in relation to temperature and salting
- Disease transmission, Food
Grabda, J., 1974, Ann. Acad. Med. Stetinensis, suppl. 10, 47-52
Anisakis simplex larvae, survival in salted-spiced herring and mackerel, depended upon concentration of salt used as well as period of storage in brine, recommendations to processing industry on proper processing
- Disease transmission, Food
Grossklauss, D., 1979, Zentralbl. Bakteriologie, 1. Abt. Orig., Reihe B, v. 168 (1-2), 83-96
zoonoses transmitted via foodstuff, control measures, review
- Disease transmission, Food
Guglielmino, S.; et al., [1978], Riv. Parassitologia, Roma, v. 38 (2-3), 1977, 285-294
Toxoplasma gondii, women, presence of antibodies correlated with various disorders, significant risk of infection through consumption of uncooked or underdone meat but not through contact with animals: area urbana di Catania e provincia
- Disease transmission, Food
Hadidjaja, P.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 51-54
larval Anisakidae in marine fish, potential source of human infection: Indonesia
- Disease transmission, Food
Healy, G. R.; and Juranek, D., 1979, Food-Borne Infect. and Intox. (Riemann), 2. ed., 343-385
parasitic diseases transmitted by food or by fecally contaminated food or water, review
- Disease transmission, Food
Hellesnes, I.; Mohn, S. F.; and Melhuus, B., 1978, Acta Vet. Scand., v. 19 (4), 574-587
Toxoplasma gondii, epidemiology and food-hygienic significance, prevalence of antibodies and cysts in swine: south-east Norway
- Disease transmission, Food
Herskovic, P.; et al., 1977, Rev. Med. Chile, v. 105 (7), 436-438
Toxoplasma gondii, comparative survey of 2 isolated communities (mainland community and island community) with emphasis on dietary habits and sources, island inhabitants' (72% infected) food source was mostly fish and other sea food suggesting that island infections may come from sea food, food source of mainland inhabitants (40% infected) was mostly lamb and beef, both communities had cats present: Chile
- Disease transmission, Food
Itotia, J. N.; Cruickshank, B.; and Refai, M., 1978, East African Med. J., v. 55 (8), 366-372
human parasitic and bacterial infections, results of faecal examinations of food handlers, importance of periodic screening: Kenya
- Disease transmission, Food
Kagei, N.; Kihata, M.; and Asano, K., 1977, Bull. Inst. Pub. Health, Tokyo, v. 26 (1), 1-13
parasites of Thyrsites atum imported to Japan for food: shore of Island of Banks, New Zealand
- Disease transmission, Food
Kerdpiibule, V.; Nicharat, S.; and Sucharit, S., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (4), 540-547
descriptions of odonate nymphs, both naiads and adults may serve as secondary intermediate hosts of some human intestinal parasites; naiads are sometimes eaten raw or poorly cooked by people of Thailand
- Disease transmission, Food
Kimura, S.; and Shimizu, A., 1978, Japan. J. Vet. Sc., v. 40 (3), 357-359
Fasciola gigantica, survival of metacercariae on rice plants exposed to various room temperatures and relative humidities for varying lengths of time, infectivity to rabbits (exper.), significance in use of rice stems as cattle feed
- Disease transmission, Food
Konjevic, P., 1979, Acta Parasitol. Iugoslaviaca, v. 9 (2), 97-103
toxoplasmosis, human, incidence, significance of age, eating of raw meat, contact with domestic animals, indirect fluorescent antibody test: Kutina, Croatia, Yugoslavia
- Disease transmission, Food
Kreuzer, W.; Obermeier, O. P.; and Kotter, L., 1976, Tierärztliche Praxis, v. 4 (1), 115-126
parasites and other diseases of fishes consumed by humans, clinical review
- Disease transmission, Food
Kuz'menko, V. D.; Pankov, N. V.; and Red'kin, A. A., 1979, Gig. i Sanitariia (6), 77
ascariasis, trichuriasis, role of fruit and vegetable shops in spread, preventive sanitation measures
- Disease transmission, Food
Lamothe-Argumedo, R.; Caballero-Deloya, J.; and Lazaro-Chavez M., E., [1979], An. Inst. Biol., Univ. Nac. Mexico, v. 48 (1), s. Zool., 1977, 295-298
Paragonimus mexicanus, Pseudothelphusa dilatata established as intermediate host, possible public health implications, crab consumed raw by local inhabitants and their pigs
- Disease transmission, Food
Leak, D.; and Meghji, M., 1979, Am. J. Cardiol., v. 43 (4), 841-849
Toxoplasma gondii, human, toxoplasmic myocarditis, 18 cases in one community, epidemiology, pathology, clinical management: Hamilton, Ontario, Canada
- Disease transmission, Food
Leek, R. G.; and Fayer, R., 1978, Proc. Helminth. Soc. Washington, v. 45 (1), 135-136
dogs fed beef and beef products purchased from retail food store in Maryland suburbs of Washington, D. C., presence of Sarcocystis cruzi sporocysts in dogs fed fresh beef and rare roast beef; no sporocysts found in feces of human volunteer, although results suggest that S. hominis, when present, could probably also survive in retail beef

Disease transmission, Food

Lim, B. L.; et al., 1978, Trop. and Geogr. Med., v. 30 (2), 241-246

Angiostrongylus malaysiensis, survey of *Pila scutata* and *Bellamyia ingallsiana* as food consumed by local population, eating habits are such that infection seems unlikely: Peninsular Malaysia

Disease transmission, Food

Lopez, C. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1128-1132

Giardia lamblia, outbreak in large group of American tourists who travelled to island of Madeira in Oct. 1976, drinking water and food implicated as probable sources of infection: Portugal

Disease transmission, Food

Margolis, H. S.; Middaugh, J. P.; and Burgess, R. D., 1979, J. Infect. Dis., v. 139 (1), 102-105

Trichinella spiralis in Eskimos after consumption of infected walrus meat, 2 outbreaks, clinical and serological characteristics, public health aspects: Barrow, Alaska

Disease transmission, Food

Marzochi, M. C. de A., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (4), 249-256

human intestinal parasites, eggs and cysts from water used to irrigate vegetable gardens, increased risk of crop contamination in dry season: Ribeirao Preto, Sao Paulo, Brazil

Disease transmission, Food

Marzochi, M. C. de A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 148-155

enteroparasitic cysts and eggs, contamination of green vegetables and kitchen garden soils, epidemiological survey, most commonly found during dry-season when fecal polluted brooks were used for irrigation: Ribeirao Preto, Sao Paulo, Brasil

Disease transmission, Food

Masur, H.; et al., 1978, Am. J. Med., v. 64 (3), 396-402

Toxoplasma gondii, outbreak of toxoplasmosis in 6 of 7 members of one household with index case manifesting retinochoroiditis, undercooked lamb implicated as probable source of infections, case reports with clinical features, diagnostic serology: New York City

Disease transmission, Food

Merdivenci, A.; et al., 1977, Vet. Fak. Dergisi, Istanbul Univ., v. 3 (1-2), 46-71

Trichinella spiralis, infection acquired by 13 persons eating pork from wild pig, possibility of natural foci of sylvatic infection in areas of domestic pig raising: Kastamonu region, Turkey

Disease transmission, Food

Miyazaki, I.; Terasaki, K.; and Iwata, K., 1978, J. Parasitol., v. 64 (3), 559-560

Paragonimus westermani, natural infection of muscles of *Sus scrofa leucomystax*, may be important source of human infection: Miyazaki Pref., Kyushu Island

Disease transmission, Food

Morisita, T.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (6), 353-356

Mesocestoides lineatus, human, 60-year-old man, case report, source of infection probably from eating raw blood and liver of snake: Nagoya City, Japan

Disease transmission, Food

Nitidandhaprabhas, P.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 206-207

Gnathostoma spinigerum, large subcutaneous nodule present for 2 months was removed from occiput of 26-year-old man and found to contain adult male worm, patient had history of eating raw fermented pork: Thailand

Disease transmission, Food

Patharangura, P.; and Chaiyaporn, V., 1973, Siriraj Hosp. Gaz., v. 25 (2), 285-294

Taenia solium, humans, increased incidence, partly due to consumption of "Nam" prepared from heavily infected pork: Siriraj Hospital

Disease transmission, Food

Riccetti, R. V., 1975, Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo, v. 12, 259-268

Cysticercus cellulosae-infected swine carcasses, sodium chloride treatment, length of storage necessary to render meat safe for consumption, comparison with refrigeration

Disease transmission, Food

Rizzo, G.; and Ricciardi, G., [1978], Riv. Parasitol., Roma, v. 38 (2-3), 1977, 303-306

Diphyllobothrium latum, woman, case report, niclosamide, ingested broiled eels possible source: Italy

Disease transmission, Food

Ruitenbergh, E. J.; van Knapen, F.; and Weiss, J. W., 1979, Vet. Parasitol., v. 1 (1), 5-13

food-borne parasitic infections, detection with enzyme-linked immunosorbent assay, control, review

Disease transmission, Food

Ruitenbergh, E. J.; van Knapen, F.; and Weiss, J. W., 1979, Vet. Parasitol., v. 5 (1), 1-10

food-borne parasitic infections, review including infections found in slaughtered animals and in seafood, possible control strategies

Disease transmission, Food

Rutgeerts, L.; et al., 1975, Tijdschr. Gastroenterol., v. 18 (2), 113-118

Eustoma rotundatum causing eosinophilic enteritis in man, differential diagnosis to be considered in obstructive syndromes occurring in consumers of raw herring

Disease transmission, Food

Schalm, O. W., 1978, Canine Pract., Santa Barbara, v. 5 (3), 59, 61-63

Nanophyetus salmincola in dogs (feces), probably caused by eating raw fish

- Disease transmission, Food
 Simanjuntak, G. M.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 494-497
 prevalence survey of taeniasis in humans and cysticercosis in pigs, socio-ecological data indicated infections in humans to be more common in those who ate raw meat dishes rather than those who were mostly fish eaters, poor sanitary conditions and easy access of pigs to human feces perpetuated infections in both pigs and humans: Bali Island, Indonesia
- Disease transmission, Food
 Tarczynski, S.; and Szepelski, L., 1970, Acta Parasitol. Polon., v. 18 (42-50), 513-519
Fasciola hepatica metacercariae, longevity and infectivity in hay, effect of different methods of hay drying used in Poland, concluded that hay may contain infective metacercariae in spite of adequate drying methods, only proper ensilage of green roughage makes it safe from infective forms of liver fluke
- Disease transmission, Food
 Tidball, J. S.; Aguas, J. P.; and Aldis, J. W., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 33-40
Capillaria philippinensis, humans (stools), 32 cases, history of eating raw fish, thiabendazole, mebendazole, life cycle discussed: San Antonio and San Narciso, Zambales Province, Western Luzon, Philippines
- Disease transmission, Food
 Tizard, I. R.; Harmeson, J.; and Lai, C. H., 1978, Canad. J. Comp. Med., v. 42 (2), 177-185
Toxoplasma gondii, prevalence of serum antibodies in farm animals, companion animals, and wild rodents and birds, significance to epizootiology of toxoplasmosis, high infection rate of meat, necessity of cooking meat properly and other sanitation measures: southern Ontario
- Disease transmission, Helminths. See Vectors, Helminths.
- Disease transmission, Hirudinea. See Vectors, Hirudinea.
- Disease transmission, Imported and exported hosts. [See also Disease transmission, Travel and migration]
- Disease transmission, Imported and exported hosts
 Arthur, J. R.; Margolis, L.; and Arai, H. P., 1976, J. Fish. Research Bd. Canada, v. 33 (11), 2489-2499
 differences in fish parasite fauna between lakes, consequences of interlake transfer by proposed water diversion: Aishihik and Stevens lakes, Yukon Territory
- Disease transmission, Imported and exported hosts
 van Banning, P., 1977, J. Invert. Path., v. 30 (2), 199-206
Minchinia armoricana nov. sp., pathogenic activity in *Ostrea edulis* imported from France for culture in Netherlands, possible menace to Dutch oyster industry
- Disease transmission, Imported and exported hosts
 Borgsteede, F. H. M.; and Koenig, C. D. W., 1979, Tijdschr. Diergeneesk., v. 104 (21), 825-828
Nematodirus battus definitely established in Dutch sheep after detection in sheep imported from Britain; clinical symptoms difficult to differentiate from coccidiosis: Netherlands
- Disease transmission, Imported and exported hosts
 Corrier, D. E.; et al., 1979, Trop. Animal Health and Prod., v. 11 (4), 215-221
Babesia bigemina- and *B. bovis*-immunized *Bos taurus* calves transported to lowland tropics, exposed to heavy vs. light *Boophilus microplus* infestation, resulting *B. bigemina* and *B. bovis* parasitemias, mortality, weight loss, and anemia: Caribbean Coast, Colombia
- Disease transmission, Imported and exported hosts
 McKeating, F. J., 1978, Vet. Rec., v. 103 (4), 79 [Letter]
Hyalomma aegyptium on *Testudo graeca* (under carapace at hind legs), potential as vectors of disease: imported into Britain
- Disease transmission, Imported and exported hosts
 Schaffer, G. D.; et al., 1978, J. Am. Vet. Med. Ass., v. 173 (9), 1148-1151
 hematotropic parasites of *Procyon lotor*, carrier potential as related to translocation and release for hunting purposes, practice is considered biologically hazardous: southeastern United States
- Disease transmission, Imported and exported hosts
 Schillhorn van Veen, T. W.; and Adeyanju, J. B., 1979, Vet. Quart., v. 1 (3), 163-165
 common diseases of exotic pet animals imported from Europe, brief review: West Africa
- Disease transmission, Imported and exported hosts
 Selim, M. K.; et al., 1970, Vet. Med. J., Giza, v. 17 (18), 173-193
 parasite survey of cattle, sheep, and camels imported to the United Arab Republic
- Disease transmission, Imported and exported hosts
 Sinha, R. P.; and Dubey, R. K., 1978, Indian Vet. J., v. 55 (5), 372-376
Anaplasma marginale outbreak in non-preimmune Jersey cattle imported from United States and Denmark to farm in Bihar, clinical symptoms and pathological findings, epizootiological factors responsible for outbreak (high ambient temperature, stress of vaccination for rinderpest virus, presence of tick vectors), control achieved through chemotherapy of sick and healthy animals, removal of vectors, and housing in cool sheds; outbreaks in exotic herds could be avoided if cattle were imported in early winter: India
- Disease transmission, Imported and exported hosts
 Westrom, D. R.; Nelson, B. C.; and Connolly, G. E., 1976, J. Med. Entom., v. 13 (2), 169-173
Bovicola tibialis, transmission from introduced *Dama dama* to *Odocoileus hemionus columbianus* apparently by direct contact at feeders, absence of males suggests that parthenogenetic reproduction occurs in *B. tibialis*: California

- Disease transmission, Insecta. See Vectors, Insecta.
- Disease transmission, Intrauterine. See Prenatal infection.
- Disease transmission, Lactation
Genchi, C.; and Malnati, G., 1976, *Parassitologia*, v. 18 (1-3), 41-44
Strongyloides westeri larvae, transmission to foals by mares' milk
- Disease transmission, Lactation
Jeschke, B. U.; and Stoye, M., 1978, *Zentralbl. Vet.-Med., Reihe B*, v. 25 (8), 625-640
Ancylostoma caninum, galactogenic transmission of third stage larvae in paratenic hosts (mice, sheep, goats)
- Disease transmission, Lactation
Mirck, M. H., 1977, *Tijdschr. Diergeneesk.*, v. 102 (17), 1039-1043
Strongyloides westeri, equine, more common in unweaned than in weaned foals, not found in foals reared artificially (worm free), found in milk of mare, no evidence for intrauterine infection, transmammary infection possible
- Disease transmission, Lactation
Thienpont, D.; et al., 1977, *Tijdschr. Diergeneesk.*, v. 102 (19), 1123-1128
Toxocara vitulorum, suckling calves, differential diagnosis from T. canis, transmammary transmission, successful treatment with levamisole: Belgium, imported from France
- Disease transmission, Lactation
Waage, S., 1977, *Norsk Vet.-Tidsskr.*, v. 89 (10), 637-641
helminths, domestic animals, prenatal and lactogenic infections, review
- Disease transmission, Lactation
Wilson, P. A. G.; Cameron, M.; and Scott, D. S., 1978, *Parasitology*, v. 77 (1), 87-96
Strongyloides ratti, rats, worm development in families during course of lactation, numbers of worms developing in mothers and in pups, passage of worms into the milk, larval latency in tissues
- Disease transmission, Man to animal
Dissanaike, A. S., 1979, *Bull. World Health Organ.*, v. 57 (3), 349-357
zoonotic aspects of filarial infections in man, review
- Disease transmission, Man to animal
Freudiger, U.; and Hoerning, B., 1975, *Therap. Umschau*, v. 32 (4), 229-236
zoonosis, epidemiology, short general review of most important diseases transmissible from animals to man and from man to animals
- Disease transmission, Man to animal
Owen, D., 1978, *Lab. Animals*, v. 12 (2), 79-80
Entamoeba coli of human and primate origin, attempted transmission to specified-pathogen-free rodents, results indicate that rodent-human contact is probably not responsible for infiltration of SPF barriers
- Disease transmission, Man to animal
Pandey, V. S.; and Mbemba, Z., 1976, *Ann. Soc. Belge Med. Trop.*, v. 56 (1), 43-46
Cysticercus cellulosae, survey of slaughtered pigs, high incidence in some areas attributed to poor sanitation, living habits, and absence of control facilities, implications for continued spread to both man and animals: Zaïre
- Disease transmission, Man to animal
Richmond, S. M., 1976, *State Vet. J.*, Min. Agric., Fish. and Food (93), v. 31, 258-263
Cysticercus bovis, cattle, outbreak resulting from single human carrier of Taenia ova, need for sanitary facilities for workers on beef cattle enterprises and for veterinary control of meat inspection, review of meat inspection regulations: Scotland
- Disease transmission, Man to animal
Simanjuntak, G. M.; et al., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (4), 494-497
prevalence survey of taeniasis in humans and cysticercosis in pigs, socio-ecological data indicated infections in humans to be more common in those who ate raw meat dishes rather than those who were mostly fish eaters, poor sanitary conditions and easy access of pigs to human feces perpetuated infections in both pigs and humans: Bali Island, Indonesia
- Disease transmission, Man to animal
Slonka, G. F.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (1, pt. 1), 101-105
Taenia saginata, cattle, outbreak of cysticercosis attributed to one feedlot, infected feedlot worker was probable source of infection, recommendations for preventing similar epizootics: southern California
- Disease transmission, Man to man. [See also Disease transmission, Venereal]
- Disease transmission, Man to man
Aust-Kettis, A.; and Thoren, G., 1974, *Scand. J. Infect. Dis.*, v. 6 (4), 349-353
Giardia lamblia, inter- and intrafamilial infection involving 5 families, case reports, epidemiology, index case thought to be 3-year-old child from Israel that had recently been adopted by family members: Lindesberg, Sweden
- Disease transmission, Man to man
Campos, C. A. M., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (2), 93-97
survey of deposits under fingernails of children, possible means of disseminating parasitic infections: bairro de Nova Descoberta (Natal, RN)
- Disease transmission, Man to man
Church, R. E.; and Knowelden, J., 1978, *Brit. Med. J.* (6115), v. 1, 761-763
human scabies, epidemiology of suspected cases referred to local hospital, main sources of infestation were family and friends, suggested prophylactic measures to halt further spread: Sheffield, England

- Disease transmission, Man to man
Doell, H.; and Flentje, B., 1970, *Psychiat., Neurol. u. Med. Psychol.*, v. 22 (9), 357-358
Enterobius vermicularis, survey of adult patients in psychiatric institution revealed that incidence was small and that transfer from patient to patient was not a problem
- Disease transmission, Man to man
Engbaek, K., 1978, *Ugeskr. Laeger*, v. 140 (1), 14-17
Giardia lamblia and other intestinal parasites of children in day-nurseries and kindergarten, incidence, clinical symptoms, management: Denmark
- Disease transmission, Man to man
Kean, B. H.; William, D. C.; and Luminais, S. K., 1979, *Brit. J. Vener. Dis.*, v. 55 (5), 375-378
amoebiasis, giardiasis, Iodamoeba butschlii, epidemic in a homosexual population: New York City
- Disease transmission, Man to man
Keystone, J. S.; Krajden, S.; and Warren, M. R., 1978, *Canad. Med. Ass. J.*, v. 119 (3), 241-248
Giardia lamblia, epidemiology of outbreak in day-care nurseries, transmission apparently person-to-person, more Canadian children were symptomatic and infected than were immigrant children attending the nurseries, infections cleared with metronidazole or atabrine, control measures suggested including treatment of all infected children regardless of whether they were symptomatic: Toronto, Canada
- Disease transmission, Man to man
Khizhniak, N. I.; et al., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (2), 232-233
contamination of various utensils with helminth eggs in children's institutions, comparison of 2 methods of examination and counting: Borispol district, Kiev region
- Disease transmission, Man to man
Kotecki, N. R., 1977, *Przegl. Epidemiol.*, v. 31 (1), 11-15
Pneumocystis carinii, small children, problems of transmission in hospitals and children's homes: Poland
- Disease transmission, Man to man
Mellanby, K., 1977, *Roy. Soc. Health J.*, v. 97 (1), 32-36, 40
Sarcoptes scabiei var. hominis, human, clinical review, transmission studies with infected persons and normal volunteers, current status in Britain
- Disease transmission, Man to man
Palicka, P., 1979, *Ceskoslov. Epidemiol., Mikrobiol., Imunol.*, v. 28 (2), 108-115
scabies, human, epidemiological surveys in familial foci
- Disease transmission, Man to man
Ring-Larsen, H.; and Jepsen, S., 1979, *Ugeskr. Laeger*, v. 141 (31), 2129-2130
Plasmodium falciparum, male drug addict infected by using common injection equipment, case report
- Disease transmission, Man to man
Ruebush, T. K. II; et al., 1978, *Am. J. Dis. Child.*, v. 132 (2), 143-148
Pneumocystis carinii pneumonia in immunosuppressed patients, epidemiologic survey in hospital outbreak in children with acute lymphocytic leukemia suggests that acquisition and spread of infection may be related to contact with hospital environment; risk of infection appeared related to intensity of chemotherapy and to a period of heightened susceptibility during therapy
- Disease transmission, Man to man
Ryning, F. W.; et al., 1979, *Ann. Int. Med.*, v. 90 (1), 47-49
Toxoplasma gondii, human, heart transplants, strong implication that donors' hearts were most likely source of infection, case reports
- Disease transmission, Man to man
Schenone, H.; et al., 1971, *Rev. Chilena Pediatr.*, v. 42 (8), 561-566
human scabies, incidence survey showed children under 15 to be most heavily infested, apparent spread through overcrowding of sleeping facilities of families, lindane therapy recommended as drug of choice: Santiago, Chile
- Disease transmission, Man to man
Thacker, S. B.; et al., 1979, *Am. J. Pub. Health*, v. 69 (12), 1279-1281
Entamoeba histolytica, Giardia lamblia, control attempts in a residential facility for mentally retarded persons: Washington, D. C.
- Disease transmission, Man to man
Unger, K. W., 1978, *N. England J. Med.*, v. 298 (20), 1148 [Letter]
Entamoeba histolytica, increasing incidence of intestinal infections in male homosexuals, importance of inclusion in differential diagnosis in cases with persistent intestinal symptoms: New York
- Disease transmission, Man to man
Vortel, V.; et al., 1973, *Sborn. Ved. Praci Lek. Fak. Karlovy Univ. Hradec Kralove, Suppl.*, v. 16 (2), 155-158
Trichomonas vaginalis causing enterocolitis in 9-day-old infant, infection thought to have occurred per os during delivery
- Disease transmission, Sewage. See Sewage.
- Disease transmission, Sludge. See Sewage.
- Disease transmission, Soil. [See also Disease transmission, Feces; Soil]
- Disease transmission, Soil
Dada, B. J. O.; and Lindquist, W. D., 1979, *J. Helminth.*, 53 (2), 145-146
Toxocara spp., prevalence of eggs in soil samples from some public grounds and highway rest areas, potential health hazard: Kansas, USA
- Disease transmission, Soil
Koshy, A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (1, pt. 1), 42-45
Ancylostoma duodenale, outbreak of disease in 27 young males after playing local game on field heavily contaminated with nightsoil, unusual clinical features, treatment: India

Disease transmission, Soil

Krasnonos, L. N., 1976, Med. Parazitol. i Parazitar. Bolezni, v. 45 (2), 186-189
ascariidosis microfoci, eggs from soil treated with carbathion, invasive capacity reduced

Disease transmission, Soil

Lawande, R. V.; et al., 1979, Am. J. Clin. Path., v. 71 (2), 201-203
Naegleria fowleri, children, soil amebas recovered from nasal passages during dusty harmattan period, cause of fatal meningoencephalitis in infant (cerebrospinal fluid, nose): Zaria

Disease transmission, Soil

Marzochi, M. C. de A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 148-155
enteroparasitic cysts and eggs, contamination of green vegetables and kitchen garden soils, epidemiological survey, most commonly found during dry-season when fecal polluted brooks were used for irrigation: Ribeirao Preto, Sao Paulo, Brasil

Disease transmission, Soil

Naprawnik, J.; and Fajkos, A., 1978, Sborn. Vysoke Skoly Zemedelske Praze, Fak. Agron., Rada B, Zivoc. Vyroba (1), 3-19
Eimeria spp., nematodes, pigs, soft runs as source of contamination, weather and climatic conditions

Disease transmission, Soil

Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 24-28
ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics

Disease transmission, Soil

Soroczan, W., 1977, Acta Parasitol. Polon., v. 24 (20-27), 259-267
Strongyloides stercoralis, life cycle, larval survival and development under different conditions of temperature, humidity, and pH in soil, water, feces, hogwash, and cow dung, potential for transmission under climatic conditions of Poland

Disease transmission, Transplacental. See Prenatal infection.Disease transmission, Transport hosts. See Vectors, Mechanical.Disease transmission, Travel and migration. [See also Disease transmission, Imported and exported hosts]

Disease transmission, Travel and migration

Adonajlo, A.; et al., 1976, Przegl. Epidemiol., v. 30 (1), 27-33
Taenia saginata, incidence of human taeniasis and bovine cysticercosis in rural areas, importance of migrations from villages and of locations of areas where cattle are pastured: Poznan Province, Poland

Disease transmission, Travel and migration

Arthur, J. R.; Margolis, L.; and Arai, H. P., 1976, J. Fish. Research Bd. Canada, v. 33 (11), 2489-2499
differences in fish parasite fauna between lakes, consequences of interlake transfer by proposed water diversion: Aishihik and Stevens lakes, Yukon Territory

Disease transmission, Travel and migration

Aust-Kettis, A.; and Magnus, L., 1973, Scand. J. Infect. Dis., v. 5 (4), 289-292
Giardia lamblia, infection in group of students after a visit to Leningrad: Stockholm, Sweden

Disease transmission, Travel and migration

Aust-Kettis, A.; and Thoren, G., 1974, Scand. J. Infect. Dis., v. 6 (4), 349-353
Giardia lamblia, inter- and intrafamilial infection involving 5 families, case reports, epidemiology, index case thought to be 3-year-old child from Israel that had recently been adopted by family members: Lindesberg, Sweden

Disease transmission, Travel and migration

Ayala, S. C.; and Varela, C. E., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (4), 253-256
Plasmodium polare, immature Chordeiles minor (blood), first report from South America, potential for intercontinental spread of avian malaras: Cali, Colombia (on migration route from North to South America)

Disease transmission, Travel and migration

Barrett-Connor, E., 1972, South. Med. J., v. 65 (1), 86-90
fluke infections, human, geographic distribution, clinical aspects, need for differential diagnostic considerations in travellers, immigrants, and military personnel

Disease transmission, Travel and migration

Barrett-Connor, E., 1978, J. Am. Med. Ass., v. 239 (18), 1901-1906
latent and chronic tropical parasitic infections that could cause illness in refugees or U.S. citizens who were exposed to the parasites in Southeast Asia, review

Disease transmission, Travel and migration

Barriere, H., 1974, Semaine Hop. Paris, v. 50 (12), 827-829
larva migrans, myiasis, humans who have recently travelled to tropical or subtropical climates, case reports, clinical diagnosis and management with thiabendazole

Disease transmission, Travel and migration

Bell, A.; Neely, C. L.; and Peeples, J., 1979, South. Med. J., v. 72 (2), 141-143
tungiasis, man (heel and sole of foot), clinical report, therapy, historical note: Memphis, Tennessee (had just returned from Brazil)

Disease transmission, Travel and migration

Bienzle, U.; Ebert, F.; and Dietrich, M., 1978, Tropenmed. u. Parasitol., v. 29 (2), 188-193
Leishmania tropica major, outbreak of cutaneous leishmaniasis in non-immune population living in endemic area, clinical features, incubation period and seasonal incidence, immunity and re-infection, treatment: German employees living in Al-Hofuf, eastern Saudi Arabia

Disease transmission, Travel and migration

Bousfield, D., 1979, Nature, London (5714), v. 279, 573-574
Schistosoma mansoni, human, rapid increase in size of endemic area, migrant workers as major factor, control programs, review: Brazil

- Disease transmission, Travel and migration
Boyce, N. P. J., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 813-820
acquisition of parasites by *Oncorhynchus gorboscha* during migration from Bella Coola River to Fitz Hugh Sound, British Columbia
- Disease transmission, Travel and migration
Brøndum Nielsen, K.; and Hegedus, V., 1975, ROEFO, v. 123 (5), 486-488
Entamoeba histolytica, amoebic liver abscess complicated by biliary fistula, clinical case report, diagnostic difficulties and suggestions for diagnostic awareness in non-endemic areas: Pakistani worker in Denmark
- Disease transmission, Travel and migration
Brothers, W.; and Heckmann, R., 1979, J. Parasitol., v. 65 (5), 782
Tunga penetrans from toe of 21-year-old Caucasian male: Utah, recently returned from Brazil
- Disease transmission, Travel and migration
Chan, K. L.; Goh, K. T.; and Koh, T. S., 1976, Singapore Med. J., v. 17 (3), 124-132
malaria, human, large post-war outbreak in highly urbanized area, epidemiology, vector survey, outbreak traced to at least one imported case from neighboring country where malaria is endemic: Whampoa-Kallang area of Singapore
- Disease transmission, Travel and migration
Chanbusarakum, P.; and Gelb, L., 1978, South. Med. J., v. 71 (1), 74-75
Plasmodium vivax, men, case reports, infected during hunting trip to Honduras: Missouri
- Disease transmission, Travel and migration
Coulaud, J. P.; et al., 1979, Ann. Med. Int., Paris, v. 130 (10), 693-696
imported malaria, increased incidence, inadequate prophylaxis, frequent re-infestation in black Africans living in France and returning periodically to endemic areas, special risks for pregnant women: Paris
- Disease transmission, Travel and migration
Demetriou, A.; Phillips, B. M.; and Hendrickse, R. G., 1978, Arch. Dis. Childhood, v. 53 (11), 912-915
Paragonimus diagnosed in child presenting with soft tissue swellings on basis of clinical, radiological, serological, and epidemiological evidence despite failure to demonstrate ova in sputum, treatment with bitin-S followed by complete cure: Britain (had previously lived in eastern Nigeria)
- Disease transmission, Travel and migration
Demidova, A. E.; et al., 1976, Terap. Arkh., v. 48 (12), 52-57
Leishmania donovani, 28-year-old man, visceral leishmaniasis infection of over 2 years' duration: Kirzhach-Vladimir Oblast, had been border guard in Crimean areas
- Disease transmission, Travel and migration
Echeverria, P.; and Cross, J. H., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 476-479
Giardia lamblia, *Entamoeba* spp., *Endolimax nana*, study of American college students who had had high incidence of diarrheal disease while traveling in the Orient, findings suggest that *G. lamblia* and *Entamoeba histolytica* should be considered in differential diagnosis of gastrointestinal disease of travellers to the Orient
- Disease transmission, Travel and migration
Ellis, C. J.; et al., 1979, Brit. Med. J. (6160), v. 1, Feb. 10, 385-388
Plasmodium spp., humans emigrating or returning from endemic areas, striking rise in incidence, need for use of prophylactic drugs by travelers to endemic areas and for increased vigilance in diagnosing and treating malaria: East Birmingham Hospital and St. Thomas's Hospital, London
- Disease transmission, Travel and migration
Fernex, M., 1979, Therap. Umschau, v. 36 (3), 205-210
tropical protozoan diseases, humans traveling to endemic areas, preventive measures, review
- Disease transmission, Travel and migration
Finau, S. A., 1979, N. Zealand Med. J. (649), v. 90, 465-466
[*Plasmodium*] *falciparum*, woman who had previously travelled in Papua New Guinea, case report: Tonga
- Disease transmission, Travel and migration
Fuller, G. K.; Lemma, A.; and Haile, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 526-530
Schistosoma mansoni, epidemiologic survey of resident population, snail vectors, and wild animals after reports of infection in tourists and campers to Omo National Park, importance of infection to future developmental plans: Omo National Park, southwest Ethiopia
- Disease transmission, Travel and migration
Gardiner, C. H.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1279-1281
Dirofilaria repens, non-gravid adult worm excised from subcutaneous tissue of man's lower abdomen: Wisconsin, infection acquired 8 years previously in Greece
- Disease transmission, Travel and migration
Goldsmith, R. S., 1978, South. Med. J., v. 71 (12), 1513-1515
Metagonimus yokogawai, American woman traveling in the Orient, case report, chronic diarrhea treated unsuccessfully with hexylresorcinol, cure with tetrachloroethylene: California
- Disease transmission, Travel and migration
Grell, G. A. C.; Watty, E. I.; and Muller, R. L., 1978, Brit. Med. J. (6150), v. 2, 1464
Syngamus [sp.] in woman who travelled extensively in Caribbean Islands, recovery after thiabendazole treatment, case report: Dominica, West Indies

- Disease transmission, Travel and migration
Gsell, O., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe B, v. 166 (6), 471-516
parasitic and other imported diseases, sources of infection discussed, future outlook, knowledge of tropical infections should be part of medical training
- Disease transmission, Travel and migration
Guillozet, N., 1979, Arch. Int. Med., Chicago, v. 139 (9), 1057-1059
filariasis, 40-year-old California man, arm lymphedema, diethylcarbamazine citrate: United States, had resided 3 years in Africa
- Disease transmission, Travel and migration
Haessig, B., 1977, Schweiz. Med. Wchnschr., v. 107 (18), 635-638
human amoebiasis and malaria, increasing incidence in non-endemic areas, epidemiologic review
- Disease transmission, Travel and migration
Hall, A. P., 1978, Brit. Med. J. (6141), v. 2, 877-879
malaria, British travellers to endemic areas, suggested control measures
- Disease transmission, Travel and migration
Hatz, B.; et al., 1978, Schweiz. Med. Wchnschr., v. 108 (39), 1495-1499
human malaria imported into Switzerland by travellers to tropical endemic areas, statistical review of reported cases, suggestions for diagnosis and clinical management
- Disease transmission, Travel and migration
Heer, K.; Ritz, R.; and Gyr, K., 1977, Schweiz. Med. Wchnschr., v. 107 (49), 1850-1852
[Plasmodium] falciparum, problems in clinical management of infected persons, importance of providing tourists to endemic areas with information on malaria: Switzerland
- Disease transmission, Travel and migration
Joesoef, A.; and Cross, J. H., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 480-488
filariasis, human, distribution and prevalence, age-sex distribution, implications for economic development programs involving resettlement of populations from non-endemic to endemic areas: Indonesia
- Disease transmission, Travel and migration
Katz, S. I.; and Taylor, R., 1971, South. Med. J., v. 64 (6), 759-760
Dermatobia hominis myiasis, student (buttocks, elbow), case report: University of Miami Health Center, recently returned from field trip to Costa Rica
- Disease transmission, Travel and migration
Kazacos, K. R.; and Smith, L. E., jr., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 213-215
Loa loa, 27-year-old Purdue University student from Sudan who had lived in United States for 4 years, case report, successful treatment with diethylcarbamazine, possible public health significance: Indiana
- Disease transmission, Travel and migration
Kecmanovic, M.; et al., 1978, Srpski Arhiv Tselok. Lekar., v. 106 (4), 421-428
cutaneous leishmaniasis with multilocular lesions, 2 men, case reports, had travelled and worked in Kuwait and Libya, clinical review, therapy: Yugoslavia
- Disease transmission, Travel and migration
Kilgour, V.; and Godfrey, D. G., 1978, Trop. Animal Health and Prod., v. 10 (3), 145-148
Trypanosoma vivax, Nigerian trade cattle, use of lorries for cattle transport from northern grazing areas to south-western markets, important factor in reduced infection rate: Nigeria
- Disease transmission, Travel and migration
Krotoski, W. A.; et al., 1978, J. Am. Med. Ass., v. 239 (26), 2778-2779
Plasmodium falciparum in 3 seamen, acquired off tropical West Africa, occupation and travel histories important in differential diagnosis: US Public Health Service Hospital, New Orleans
- Disease transmission, Travel and migration
Kuntz, R. E.; et al., 1978, J. Parasitol., v. 64 (5), 940-941
Schistosoma mansoni, Saudi Arabian strain, susceptibility of different species and geographic strains of Biomphalaria (exper.), no infections in B. obstructa from south Texas, brief discussion of possibility of introduction of schistosomiasis into United States
- Disease transmission, Travel and migration
Loban, K. M., 1979, Sovet. Med. (5), 51-54
human parasitic diseases imported into Russia by travelers to Africa, Asia, and Latin America, symptoms, clinical management
- Disease transmission, Travel and migration
Loban, K. M.; and Polozok, E. S., 1978, Sovet. Med. (5), 59-61
human malaria, errors in diagnosing cases imported into non-endemic areas
- Disease transmission, Travel and migration
Loehr, H.; and Wolf, H., 1978, Deutsche Med. Wchnschr., v. 103 (10), 424-427
visceral leishmaniasis in child apparently acquired while traveling in Yugoslavia, manifestations of severe septic temperature elevations, diagnostic difficulties with diagnosis finally by immunoserologic means, improvement in condition after fuadin therapy: Germany
- Disease transmission, Travel and migration
Lopez, C. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1128-1132
Giardia lamblia, outbreak in large group of American tourists who travelled to island of Madeira in Oct. 1976, drinking water and food implicated as probable sources of infection: Portugal
- Disease transmission, Travel and migration
Lopez, C. E.; Ruebush, T. K. II; and Schultz, M. G., 1979, J. Infect. Dis., v. 139 (2), 255-260
malaria, American civilians, detailed analysis of cases acquired during travel abroad, 1970-1976
- Disease transmission, Travel and migration
Lynch, M. W.; and Harmon, W. M., 1979, West. J. Med., San Francisco, v. 131 (4), 336-338
[Letter]
intestinal parasites, humans, prevalence in 3 ethnic groups (Mexican-American, Punjabi, Caucasian): Cantua Creek, California

- Disease transmission, Travel and migration
Lysenko, A. Ia.; et al., 1978, *Sovet. Med.* (5), 62-65
malaria, observations on imported human cases, diagnostic importance, clinical aspects: SSSR
- Disease transmission, Travel and migration
Matzen, P.; and Starklint, H., 1976, *Ugeskr. Laeger*, v. 138 (3), 157-158
Plasmodium falciparum, man, associated Salmonella bacteremia, death due to malarial cerebral edema, infected during conducted tourist trip to Gran Canaria and Gambia: Denmark
- Disease transmission, Travel and migration
Neva, F. A.; Wyler, D.; and Nash, T., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 467-471
cutaneous leishmaniasis resembling 'moist' form caused by Leishmania tropica major, 24-year-old male Peace Corps volunteer in Senegal, case report, persistent organisms in healing lesions after multiple courses of treatment and in presence of normal humoral and cell-mediated immune response
- Disease transmission, Travel and migration
Partono, F.; and Purnomo, 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (3), 338-343
Brugia timori, clinical features among immigrants to endemic area: West Flores, Indonesia
- Disease transmission, Travel and migration
Pawlowski, Z.; and Kociecka, W., 1979, *Polski Tygod. Lekar.*, v. 34 (47), 1853-1856
tourist diarrhea of parasitic and bacterial origins, clinical review
- Disease transmission, Travel and migration
Perera, D. R.; et al., 1972, *South. Med. J.*, v. 65 (3), 333-336
schistosomiasis mansoni, outbreak in family that had earlier spent 3 years in East Africa, clinical aspects, therapy, 2-year-follow-up: Georgia
- Disease transmission, Travel and migration
Perry, H. D.; and Font, R. L., 1978, *Arch. Ophth.*, Chicago, v. 96 (7), 1255-1257
Cysticercus cellulosae, solitary cyst in eyelid of young girl who several years previously had lived for 2 years in Vietnam and Laos, clinical case report, histologic diagnosis
- Disease transmission, Travel and migration
Prag, J.; Nørredam, K.; and Hardvendel, U., 1979, *Ugeskr. Laeger*, v. 141 (44), 3022-3028
parasite survey, 150 Vietnamese Mon-Khmers during their first 30 months after arrival in Denmark
- Disease transmission, Travel and migration
Price, S. M.; and Silvers, D. N., 1977, *Arch. Dermat.*, Chicago, v. 113 (10), 1415-1416
cutaneous leishmaniasis resulting in ulcerous lesion on arm of college student who had recently returned from Peru, case report, diagnostic problems finally resolved by fluorescent antibody test: New York
- Disease transmission, Travel and migration
Raimer, S.; and Wolf, J. E., jr., 1978, *Arch. Dermat.*, Chicago, v. 114 (1), 107-108
cysticercosis, human cases, subcutaneous nodules, surgical removal; previous tapeworm infection in Mexico; importance of careful diagnosis of travelers' infections: Texas
- Disease transmission, Travel and migration
Robinson, C. R.; Wilson, D.; and Kaplan, E. P., 1979, *Canad. Med. Ass. J.*, v. 120 (2), 130 [Letter]
Plasmodium falciparum, boy, chloroquine, case report, recently travelled to Liberia and Ivory Coast; importance of determining whether patient has travelled outside United States or Canada: Massachusetts
- Disease transmission, Travel and migration
Rothenborg, H. W.; Sjölin, K. E.; and Kristensen, N. P., 1976, *Ugeskr. Laeger*, v. 138 (40), 2437-2440
Tunga penetrans, Danish tourist to Gambia, severe infestation of feet after exposure to sandy beaches; pathology, scanning electron microscopy of fleas, suggested control measures
- Disease transmission, Travel and migration
Salaki, J. S.; Shirey, J. L.; and Strickland, G. T., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 190-193
Entamoeba polecki, 24-year-old Peace Corps volunteer (feces), symptomatic intestinal infection cured with diloxanide furate and metronidazole: United States (previously in Upper Volta)
- Disease transmission, Travel and migration
Sekla, L.; et al., 1978, *Canad. J. Pub. Health*, v. 69 (6), 475-480
endemic and imported parasitic diseases, humans, pilot survey, fecal and serologic tests; cercarial dermatitis difficult to detect as recreational waters were treated with copper sulfate: Manitoba
- Disease transmission, Travel and migration
Selim, M. K.; Hosny, Z.; and El-Kassaby, A., 1970, *Vet. Med. J.*, Giza, v. 17 (18), 111-117
Capillaria obsignata, Amidostomum anseris, survey of migrant birds indicates they may be source of contamination for domestic birds; Syngamus trachea was not detected in any birds examined: United Arab Republic
- Disease transmission, Travel and migration
Shookhoff, H. B.; et al., 1979, *Bull. N. York Acad. Med.*, v. 55 (4), 385-400
malaria, human, review of all cases reported in New York City between 1972 and 1977: geographical source of imported cases, age, sex, race, nationality, and occupational status of host; need for physicians to inform travelers of malaria risk and chemoprophylactic benefit
- Disease transmission, Travel and migration
Sternér, G.; and Näsander, L., 1977, *Scand. J. Infect. Dis.*, v. 9 (2), 154-156
trypanosomiasis, probably Gambian type, Swedish woman who had vacationed in Gambia, case report, discussion of possible risk of Europeans acquiring infection while touring African nations

- Disease transmission, Travel and migration
Stierli, J.; and Steffen, R., 1978, Schweiz. Med. Wchnschr., v. 108 (34), 1310-1317
Entamoeba histolytica, retrospective study of 453 persons who became infected through travel or living abroad, symptoms, pathology, therapy: Zurich region of Switzerland
- Disease transmission, Travel and migration
Stingl, P., 1978, Therapiewoche, v. 28 (23), 4586-4594
tropical dermal parasitic diseases which may be diagnosed in tourists and travellers to endemic areas, clinical review
- Disease transmission, Travel and migration
Stuerchler, D., 1978, Schweiz. Med. Wchnschr., v. 108 (46), 1810-1811
malaria, humans, epidemiology, risk of infection in travellers returning from Africa, importance of prophylaxis: Switzerland
- Disease transmission, Travel and migration
Temcharoen, P.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (4), 552-555
survey of intestinal parasites of Laotian refugees to detect presence of schistosomiasis, public health implications: Ubon Province, Thailand
- Disease transmission, Travel and migration
Thompson, R. G.; et al., 1979, Brit. Med. J. (6168), v. 1, 952 [Letter]
malaria, immigrants and travellers, incidence, recommendations for educating travellers and the general public: Wolverhampton
- Disease transmission, Travel and migration
Tomaszun, S., 1974, Przegl. Epidemiol., v. 28 (2), 139-148
human malarias, nomadic migration, local customs, low levels of education and lack of sufficient health services contribute to spread of infections and difficulties in establishing control measures in Afghanistan
- Disease transmission, Travel and migration
Trzaska, B.; Czesnel, Z.; and Golba, J., 1974, Przegl. Epidemiol., v. 28 (3), 389-395
Plasmodium ovale, clinical aspects and diagnostic criteria of infections in 2 African natives living in Poland
- Disease transmission, Travel and migration
Walker, E., 1978, Brit. Med. J. (6153), v. 2, 1718 [Letter]
Plasmodium vivax and P. falciparum in UK citizens travelling abroad and in visitors or new residents to Britain, importance of prophylaxis
- Disease transmission, Travel and migration
Weller, P. F.; et al., 1978, J. Am. Med. Ass., v. 240 (9), 858-859
Mansonella ozzardi, regular blood donor, tourism-acquired (Caribbean) asymptomatic microfilaremia; no infection in blood recipients; diethylcarbamazine treatment unsuccessful
- Disease transmission, Travel and migration
Wiedermann, G., 1979, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe B, v. 168 (1-2), 165-174
parasitic and microbiological risks associated with increased tourism from West Germany and Austria into warmer countries
- Disease transmission, Travel and migration
Zwierz, C.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 403-413
amoebiasis and other human intestinal parasites, persons returning from tropical countries, laboratory diagnostic problems, test recommendations: Poland
- Disease transmission, Venereal
Felman, Y. M.; and Ricciardi, N. B., 1979, Bull. N. York Acad. Med., v. 55 (6), 533-539
enteric human pathogens, sexual transmission, higher prevalence among homosexual males, public health aspects
- Disease transmission, Venereal
Nordstoga, K.; et al., 1978, Acta Vet. Scand., v. 19 (1), 150-152
Nosema cuniculi, Alopecurus lagopus, clinical signs of nosenmatosis in litter after artificial insemination and intrauterine injection of Nosema spores, possibility of transmission from male during mating
- Disease transmission, Venereal
Schmerin, M. J.; Jones, T. C.; and Klein, H., 1978, Ann. Int. Med., v. 88 (6), 801-803
Giardia lamblia, association of infection with male homosexuality, case reports, diagnostic recommendations: New York City
- Disease transmission, Venereal
Schneider, G. T., 1979, Postgrad. Med., v. 65 (4), 177-180
vaginal infections including Trichomonas vaginalis, pregnant women, sexual transmission, diagnosis and treatment, review
- Disease transmission, Venereal
Spence, J. B.; et al., 1978, Vet. Rec., v. 102 (2), 38-39
Toxoplasma gondii, sheep (exper.) (semen and epididymis of rams; heart, skeletal muscle, and liver of ewes), clinical response, results indicate that transmission is possible at coitus
- Disease transmission, Venereal
William, D. C.; et al., 1978, Sex. Transm. Dis., v. 5 (4), 155-157
enteric protozoa, Enterobius vermicularis, high rate of infection in homosexual men who practice anilingus: New York City
- Disease transmission, Water. [See also Disease transmission, Feces; Irrigation]
- Disease transmission, Water
Biswas, A. K., 1978, Water Supply & Management, v. 2 (4), 283-297
discussion on environmental implications of water development for developing countries: possibility of decreased human parasitism by improving potable water and by reducing human contacts with vectors of water-borne or water-based infections, also possibility of spread of parasitism through development of irrigation canals
- Disease transmission, Water
Burch, J. B.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (2), 174-178
vector potential of bulinine snails found in Lake Nasser established by count of chromosome numbers, potential susceptibility of these snails must be taken into account in plans to resettle human populations around the lake: Egypt

- Disease transmission, Water
Bygbjerg, I. C.; and Rask, M. P., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 54-55
Armillifer armillatus, abdominal pentastomiasis in man (in tumor of omentum, on peritoneum of intestines and abdominal wall) with associated cancer of colon, case report, infection possibly originated from drinking water contaminated by snakes or from eating snake or crocodile meat: Zaire
- Disease transmission, Water
Carter, S. A., 1978, Internat. J. Environment. Studies, v. 12 (3), 199-205
Naegleria fowleri, human amoebic meningoencephalitis, water pollution as major source of infection, epidemiology, prevention and control, review
- Disease transmission, Water
Craun, G. F., 1979, Am. J. Pub. Health, v. 69 (8), 817-819
Giardia lamblia, humans, waterborne outbreaks occurring from contaminated drinking water, seasonal distribution, data indicate that disinfection as only treatment for surface water sources is ineffective, review: United States
- Disease transmission, Water
Dalton, P. R.; and Pole, D., 1978, Bull. World Health Organ., v. 56 (3), 417-426
Schistosoma haematobium, water contact patterns of people according to age, sex, and type of activity, multiple regression analysis: Faten, Lake Volta, Ghana
- Disease transmission, Water
De Jonckheere, J. F., 1979, Applied and Environment. Microbiol., v. 38 (4), 590-593
Naegleria and *Acanthamoeba*, incidence in aquaria, may be source of human infection: Belgium
- Disease transmission, Water
Derr-Harf, C.; et al., 1978, Ann. Parasitol., v. 53 (5), 467-477
isolation of 164 strains of free-living amoebae from public water supplies and swimming pools, some strains of *Acanthamoeba polyphaga*, *A. castellanii*, *A. lenticulata*, and *A. comandoni* were pathogenic for mice, none of the *Naegleria* isolated were pathogenic for mice, levels of bromine and chlorine used were insufficient to eliminate these amoebae, potential danger to users and suggested control measures: Strasbourg
- Disease transmission, Water
Dive, D.; et al., 1978, Ann. Microbiol., v. 129 B (2), 225-244
"Limax" amoebae in swimming pools, water purification systems, associated bacterial flora, temperature, pathogenicity to mice: North of France
- Disease transmission, Water
Healy, G. R.; and Juranek, D., 1979, Food-Borne Infect. and Intox. (Riemann), 2. ed., 343-385
parasitic diseases transmitted by food or by fecally contaminated food or water, review
- Disease transmission, Water
Hermanne, J.; Jadin, J. B.; and Martin, J. J., 1972, Semaine Hop. Paris, v. 48 (21), 1539-1550 (Ann. Pediat., Paris, v. 19 (5), 425-436)
Naegleria gruberi, human, fatal meningoencephalitis after swimming in public pools, amoeba discovered in spinal fluid, amphotericin B studied as possible therapy: Belgium
- Disease transmission, Water
Iwanczuk, I.; and Kelus, J., 1971, Roczniki Panstwow. Zakl. Hig., v. 22 (2), 179-187
tests for ovicidal activity of iodine and chlorine in swimming pools using *Aspicularis tetraptera* as model for human *Enterobius vermicularis* and *Ascaris suis* as model for *Ascaris lumbricoides*; neither chemical was an effective ovicide
- Disease transmission, Water
Jadin, J. B.; et al., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (2), 255-266
Naegleria gruberi, human primary amoebic meningoencephalitis, case reports, swimming pools were source of infections: Western Europe
- Disease transmission, Water
Kadlec, V.; Cerva, L.; and Skvarova, J., 1978, Science (4360), v. 201, 1025
reservoir of pathogenic *Naegleria fowleri* located in cracked wall of indoor swimming pool where repeated outbreaks of primary amoebic meningoencephalitis were observed between 1962 and 1965: northern Bohemia
- Disease transmission, Water
Lopez, C. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1128-1132
Giardia lamblia, outbreak in large group of American tourists who travelled to island of Madeira in Oct. 1976, drinking water and food implicated as probable sources of infection: Portugal
- Disease transmission, Water
Marzochi, M. C. de A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 148-155
enteroparasitic cysts and eggs, contamination of green vegetables and kitchen garden soils, epidemiological survey, most commonly found during dry-season when fecal polluted brooks were used for irrigation: Ribeirao Preto, Sao Paulo, Brasil
- Disease transmission, Water
Obeng, L. E., 1978, Water Supply & Management, v. 2 (4), 343-350
Starvation or bilharzia?--a rural development dilemma
- Disease transmission, Water
Ongom, V. L.; Ococi-Jungalo, A. H.; and Wamboka, J. W., 1977, East African Med. J., v. 54 (12), 678-679
mixed *Schistosoma mansoni* and *S. bovis* infection in Sudanese immigrant (stool), case report, significance in relation to current concepts on heterologous immunity discussed, infection possibly acquired from drinking river water frequented by wild animals: Uganda

- Disease transmission, Water
Pernin, P.; and Riany, A., 1978, *Ann. Parasitol.*, v. 53 (4), 333-344
survey of swimming pools for presence of free-living amebae, potential danger for swimmers: Lyon
- Disease transmission, Water
Pretorius, S. J.; Oberholzer, G.; and van Eeden, J. A., 1976, *South African Med. J.*, v. 50 (25), 968-972
Tugela-Vaal River water scheme as possible source for introduction of bilharziasis into non-endemic area, snail survey for potential vectors: Orange Free State, South Africa
- Disease transmission, Water
Rajasekaran, P., 1978, *Madras Agric. J.*, v. 65 (9), 613-616
intestinal parasites, children, infection rates in relation to sources of drinking water (open dug wells, water taps in street, water tap within household): Athur block, Madurai district, Tamil Nadu
- Disease transmission, Water
Rivera, F.; et al., 1979, *Tr. Am. Micr. Soc.*, v. 98 (3), 465-469
protozoa polluting tap water, concentration and identification in culture: Federal District, Mexico City
- Disease transmission, Water
Sharavina, N. P., 1978, *Zool. Zhurnal*, v. 57 (10), 1571-1573
Ascaris suum eggs eaten and digested by ciliates, possible role in water purification
- Disease transmission, Water
Sorocznan, W., 1977, *Acta Parasitol. Polon.*, v. 24 (20-27), 259-267
Strongyloides stercoralis, life cycle, larval survival and development under different conditions of temperature, humidity, and pH in soil, water, feces, hogwash, and cow dung, potential for transmission under climatic conditions of Poland
- Disease transmission, Water
Wright, R. A.; and Vernon, T. M., 1976, *Rocky Mountain Med. J.*, v. 73 (4), 208-211
Giardia lamblia, epidemic of giardiasis among employees of mountain resort lodge, epidemiologic investigation implicated lodge's untreated water supply as source of infection: Colorado
- Distribution in host. See Localization.
- Diurnal rhythms. See Periodicity.
- Drugs, Mode of action. [See also Pharmacology]
- Drugs, Mode of action
Alonso, P., 1979, *Chemotherapy*, v. 25 (1), 40-47
tinidazole, free-living ciliates highly resistant, probably due to their aerobic condition, morphological and physiological alterations, comparison with parasitic protozoa
- Drugs, Mode of action
Andrews, P., 1978, *Ztschr. Parasitenk.*, v. 56 (1), 99-106
Schistosoma mansoni, praziquantel, effects on miracidia and their hatching; effects on cercarial swimming, penetration and subsequent development in final host
- Drugs, Mode of action
Bachrach, U.; et al., 1979, *Exper. Parasitol.*, v. 48 (3), 464-470
Leishmania spp., effect of ethidium, pentamidine, and methylglyoxal-bis (guanyldiazone) on growth and on polyamine, RNA, and DNA synthesis
- Drugs, Mode of action
Behm, C. A.; and Bryant, C., 1979, *Vet. Parasitol.*, v. 5 (1), 39-49
anthelmintic action--a metabolic approach, a review
- Drugs, Mode of action
Benard, J.; Riou, G.; and Saucier, J. M., 1979, *Nucleic Acids Research*, v. 6 (5), 1941-1952
Trypanosoma cruzi at different stages of culture and grown in presence of ethidium, kinetoplast DNA, characterization by sedimentation analysis
- Drugs, Mode of action
Bennet, E. M.; Behm, C.; and Bryant, C., 1978, *Internat. J. Parasitol.*, v. 8 (6), 463-466
Mesocostoides corti, mice (infected, injected with dead larvae previous to infection, or irradiated), effects of mebendazole and levamisole alone or together on tetrathyridia, concluded that anthelmintic efficacy of mebendazole depends on its anthelmintic activity supplemented by host's immune response and that levamisole stimulates the latter
- Drugs, Mode of action
Bennett, J. L.; and Gianutsos, G., 1978, *Biochem. Pharmacol.*, v. 27 (5), 817-820
Schistosoma mansoni in mice, disulfiram reduces norepinephrine levels in both male and female parasites and induces abnormal egg production, varying effects on other schistosome physiological and biochemical parameters, disulfiram also reduces pathological consequences of infection and affects parasite development
- Drugs, Mode of action
Bogdanov, V. R.; et al., 1977, *Sborn. Nauch. Rabot SibNIVI, Sibirsk. Nauchno-Issled. Vet. Inst.* (29), 90-91
cestodes, pathomorphology resulting from action of various anthelmintics
- Drugs, Mode of action
Bogdanov, V. R.; Koshkina, N. G.; and Logachev, E. D., 1977, *Sborn. Nauch. Rabot SibNIVI, Sibirsk. Nauchno-Issled. Vet. Inst.* (29), 92-93
Dipylidium caninum, various anthelmintics, in vitro action on surface tissues and inactivation of enzymes
- Drugs, Mode of action
Bouwsmas, O. J.; Stewart, J. T.; and Capomacchia, A. C., 1978, *J. Pharm. Sci.*, v. 67 (9), 1224-1228
 α -dibutylaminomethyl-2,6-bis(p-trifluoromethylphenyl)-4-pyridinemethanol, potential antimalarial agent, characterization of pharmacologically important species derived by electronic absorption and fluorescence spectroscopy

- Drugs, Mode of action
 Boveris, A.; et al., 1977, Rev. Asoc. Argent. Microbiol., v. 9 (2), 54-61
Trypanosoma cruzi, epimastigote forms in saline medium, action of β -lapachone and its metabolite form α -lapachone on parasite growth and production of hydrogen peroxide; β -lapachone inhibited growth but possible effect was mediated by the hydrogen peroxide and related free radicals
- Drugs, Mode of action
 Boveris, A.; et al., 1978, Biochem. J., v. 175 (2), 431-439
Trypanosoma cruzi, differential effect of β -lapachone and α -lapachone on superoxide anion and hydrogen peroxide production and on growth of epimastigotes
- Drugs, Mode of action
 Boveris, A.; et al., 1978, Comp. Biochem. and Physiol., v. 61C (2), 327-329
Trypanosoma cruzi, correlation between superoxide anion production and trypanocidal action of naphthoquinones
- Drugs, Mode of action
 Brener, Z., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (4), 302-306
Trypanosoma cruzi, description of method allowing study of drug action on trypomastigotes in mice
- Drugs, Mode of action
 Brener, Z.; Costa, C. A. G.; and Chiari, C., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 450-455
Trypanosoma cruzi, mice treated with nitrofurazone, nifurtimox, or Ro 7-1051, differences in susceptibility of 4 parasite strains to active drugs attributed to biological characteristics of strains rather than to mode of drug action
- Drugs, Mode of action
 Brohn, F. H.; and Clarkson, A. B., jr., 1978, Acta Trop., v. 35 (1), 23-33
Trypanosoma brucei brucei, effect of glycerol on anaerobic glycolysis in vitro, concomitant administration of salicylhydroxamic acid and glycerol to infected rats results in rapid clearance of parasitemia
- Drugs, Mode of action
 Brotherton, J., 1978, Arzneimittelforsch., v. 28 (10), 1665-1672
 trichomonads, in vitro testing of potential trichomonacides using Coulter Counter, chemical structure and effectiveness discussed
- Drugs, Mode of action
 Bunn, M. M.; et al., 1977, Ztschr. Parasitenk., v. 52 (3), 245-256
Herpetomonas samuelpessoai in vitro, 2-deoxy-D-glucose (2-DG) inhibits growth and respiration, modifies ultrastructure of cells; some carbohydrates decrease effect of 2-DG
- Drugs, Mode of action
 Burchard, G. D.; Albiez, E. J.; and Bierther, M., 1979, Tropenmed. u. Parasitol., v. 30 (1), 97-102
 onchocerciasis, humans, electron microscopic studies of skin and of microfilariae after treatment with metrifonate: Liberia
- Drugs, Mode of action
 Campbell, W. C.; Blair, L. S.; and Lotti, V. J., 1979, J. Helminth., v. 53 (3), 254-256
Trichinella spiralis, mice, efficacy of avermectin B_{2a} not suppressed by agents known to block cholinergic neurotransmission
- Drugs, Mode of action
 Carli, S.; et al., 1979, Riv. Zootechn. e Vet. (1), 7-9
Fasciola hepatica, in vitro, lucensomycin, fluke motility, effect of drug reduced by steroid compounds, not affected by α -mercaptopropionylglycine
- Drugs, Mode of action
 Catchpool, J. F., 1974, Rev. Med. Pharmacol., 4. ed., 594-620
 antiprotozoal drugs in current use, extensive review of modes of action, epidemiologic factors, clinical administration, contraindications and cautions
- Drugs, Mode of action
 Chaikin, R. J., 1979, Canine Pract., v. 6 (3), 32, 35-37
Dirofilaria immitis, dogs, efficacy of levamisole as a simultaneous microfilaricide/adulticide
- Drugs, Mode of action
 Chang, K. P.; et al., 1978, J. Protozool., v. 25 (1), 145-149
 methylglyoxal bis(guanyldihydrazone) (MGBG), little in vitro effect on *Blastocrithidia culicis*, *Crithidia oncopelti*, and *Leishmania* spp. but complete inhibition of growth of *Trypanosoma brucei*, reduced parasitemia of *T. brucei* and *T. congolense* in rats but infections relapsed, tracer studies with *T. brucei* showed that MGBG interfered with nucleoside incorporation
- Drugs, Mode of action
 Chappel, L. R., 1979, J. Parasitol., v. 65 (1), 137-143
Eimeria spp., chicks, site of action of salinomycin
- Drugs, Mode of action
 Chatfield, R. C.; and Yeary, R. A., 1979, Vet. Parasitol., v. 5 (2-3), 177-193
Hymenolepis diminuta, bunamidine HCl, applicability of in vitro cultivation in determination of LC₅₀, effect on enzymes involved in energy metabolism and on ultrastructure
- Drugs, Mode of action
 Chavasse, C. J.; Brown, M. C.; and Bell, D. R., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 293-295
Schistosoma mansoni, short term effects of oxamniquine on activity of paired worms in vitro
- Drugs, Mode of action
 Chavasse, C. J.; Brown, M. C.; and Bell, D. R., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 241-249
Schistosoma mansoni, activity of pairs of adults as modified by various oxamniquine concentrations monitored in continuous flow culture system by means of ultrasound

Drugs, Mode of action

Chavasse, C. J.; Brown, M. C.; and Bell, D. R., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 363-367

Schistosoma mansoni, ultrasound compares favorably with other activity monitoring methods used to assess drug effects on worms; response to 5-hydroxytryptamine as indicator of neuromuscular status

Drugs, Mode of action

Chevis, R. A. F.; and Kelly, J. D., 1978, *N. Zealand Vet. J.*, v. 26 (9), 218-220

Fasciola hepatica, rats and sheep (both exper.), mebendazole, parbendazole, cambendazole, thiabendazole, anthelmintic activity, molecular structure-activity analyses

Drugs, Mode of action

Christow, C. P., 1974, *Rev. Biol. Trop.*, v. 21 (2), 187-195

Trichomonas vaginalis, in vitro, reproduction inhibited by anti-amino acids (β -indolilacrylic acid, styrylacetic acid)

Drugs, Mode of action

Christow, C., 1978, *Biochem. and Exper. Biol.*, v. 14 (2), 177-180

Trichomonas foetus, effect of certain B₁₂ antagonists upon growth

Drugs, Mode of action

Chubb, J. M.; et al., 1978, *J. Pharmacol. and Exper. Therap.*, v. 207 (2), 284-293

praziquantel, effects on electromechanical properties of isolated rat atria

Drugs, Mode of action

Cohen, S. S., 1979, *Science* (4410), v. 205, 964-971

development of selective chemotherapeutic agents exploiting biochemical differences between disease agents and their hosts, review, includes discussion of several tropical diseases

Drugs, Mode of action

Coles, G. C., 1979, *J. Helminth.*, v. 53 (1), 31-33

Schistosoma mansoni, praziquantel, effect on different life cycle stages, possible mechanism of action

Drugs, Mode of action

Coles, G. C.; and Chappell, L. H., 1979, *Exper. Parasitol.*, v. 47 (1), 49-53

Schistosoma mansoni, effects of potassium antimony tartrate on immature vs. adult worms in vitro and in vivo, if antimony acts by inhibition of phosphofructokinase it is not clear why young worms are more resistant to chemotherapy than adults

Drugs, Mode of action

Cruz, F. S.; Docampo, R.; and de Souza, W., 1978, *Acta Trop.*, v. 34 (1), 35-40

Trypanosoma cruzi, β -lapachone markedly increases generation of hydrogen peroxide in intact epimastigotes

Drugs, Mode of action

Dewey, V. C.; Kidder, G. W.; and Nolan, L. L., 1978, *Biochem. Pharmacol.*, v. 27 (10), 1479-1485

Crithidia fasciculata, mechanism of inhibition of growth by adenosine and adenosine analogs

Drugs, Mode of action

Docampo, R.; et al., 1978, *Arch. Biochem. and Biophys.*, v. 186 (2), 292-297

Trypanosoma cruzi, β -lapachone-treated epimastigotes, lipid peroxidation and generation of free radicals, superoxide anion, and hydrogen peroxide

Drugs, Mode of action

Docampo, R.; et al., 1978, *Ztschr. Parasitenk.*, v. 57 (3), 189-198

Trypanosoma cruzi, naphthoquinones, effect on ultrastructure and superoxide anion and hydrogen peroxide production of different stages

Drugs, Mode of action

Docampo, R.; and Stoppani, A. O. M., 1979, *Arch. Biochem. and Biophys.*, v. 197 (1), 317-321

Trypanosoma cruzi epimastigotes, generation of superoxide anion and hydrogen peroxide induced by nifurtimox

Drugs, Mode of action

Dovzhenko, V. A.; et al., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (2), 169-173

Diphyllbothrium latum, *Hymenolepis nana*, *Taeniarrhynchus saginatus*, phenasal effects on various parts of strobila

Drugs, Mode of action

Dubey, J. P.; et al., 1978, *Am. J. Vet. Research*, v. 39 (6), 1027-1031

Paragonimus kellicotti, specific-pathogen-free cats, albendazole, excellent results (reduced ova production, changed worm morphology, reduced pulmonary lesions)

Drugs, Mode of action

Duewel, D.; and Schleich, H., 1978, *Zentralbl. Vet.-Med., Reihe B*, v. 25 (10), 800-805

Hymenolepis diminuta, laboratory rats, fenbendazole, mode of action

Drugs, Mode of action

Eckert, J.; Barandun, G.; and Pohlenz, J., 1978, *Schweiz. Med. Wchnschr.*, v. 108 (29), 1104-1112

Echinococcus spp., larval stages, laboratory animals, fenbendazole, mebendazole

Drugs, Mode of action

Edwards, D. I., 1979, *J. Antimicrob. Chemother.*, v. 5 (5), 499-502

Trichomonas vaginalis and other anaerobes, metronidazole, mechanism of antimicrobial action

Drugs, Mode of action

Edwards, D. I.; et al., 1979, *J. Antimicrob. Chemother.*, v. 5 (3), 315-316 [Letter]

metronidazole and misonidazole absorbed and inactivated by bacteria and fungi, mechanism of inactivation and relationship to known mechanism of drug action

Drugs, Mode of action

El Boulaqi, H. A.; et al., 1979, *Acta Trop.*, v. 36 (1), 85-90

Ascaris lumbricoides, human, levamisole treatment, degenerative changes in intestine and reproductive system of worms, worms not expelled by treatment produced only non-viable eggs

Drugs, Mode of action

Entner, N., 1979, J. Protozool., v. 26 (2), 324-328

Entamoeba histolytica, emetine binding to ribosomes, inhibition of protein synthesis and amebicidal action, capacity to bind emetine is index of drug resistance

Drugs, Mode of action

Euzeby, J., 1977, Rev. Med. Vet., Toulouse, v. 128 (12), 1589-1625

gastrointestinal helminths, cattle breeding, therapeutic and prophylactic control, nutrition and selection of resistant strains of cattle, extensive review: west Europe

Drugs, Mode of action

Field, R. C.; et al., 1978, Brit. J. Pharmacol., v. 62 (2), 159-164

effects of chloroquine, primaquine and ethidium on precursor incorporation into DNA, RNA and protein in mammalian tissues

Drugs, Mode of action

Fitch, C. D.; Chevli, R.; and Gonzalez, Y., 1974, Antimicrob. Agents and Chemotherapy, v. 6 (6), 757-762

Plasmodium falciparum, *Aotus trivirgatus* erythrocytes infected with chloroquine-susceptible vs. chloroquine-resistant strain, effect of substrate (glucose) on chloroquine and amodiaquin accumulation

Drugs, Mode of action

Fletcher, K. A.; and Sarikabhuti, B., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 489-490

Plasmodium berghei, mice, anti-plasmodial activity of chloroquine does not appear to be associated with inhibition of erythrocytic glucose-6-phosphate dehydrogenase

Drugs, Mode of action

Friedman, P. A.; and Platzer, E. G., 1978, Biochim. et Biophys. Acta, v. 544 (3), 605-614

benzimidazoles and benzimidazole derivatives, interaction with bovine brain tubulin, implications for mode of anthelmintic action

Drugs, Mode of action

Fritz, L. C.; Wang, C. C.; and Gorio, A., 1979, Proc. National Acad. Sc., v. 76 (4), 2062-2066

avermectin B_{1a}, effect on neuromuscular preparations of lobster, *Ascaris lumbricoides*, frog, and crayfish

Drugs, Mode of action

Fuskova, A.; Fuska, J.; and Kettner, M., 1978, Folia Microbiol., v. 23 (5), 389-393

Tritrichomonas foetus, in vitro inhibition by vermiculine, mode of action

Drugs, Mode of action

Goennert, R.; and Andrews, P., 1977, Ztschr. Parasitenk., v. 52 (2), 129-150

Schistosoma mansoni in mice, *Mastomys*, and hamster, praziquantel, various routes of administration compared, all effective; fractional doses double efficacy of single dose; more effective against invading and mature stages than against juveniles

Drugs, Mode of action

Goldsmith, R. S., 1974, Rev. Med. Pharmacol., 4. ed., 621-649

anthelmintics in current use, extensive review of modes of action, epidemiologic factors, clinical administration, contraindications and cautions

Drugs, Mode of action

Guida, V. O.; et al., 1974, Rev. Brasil. Med., v. 31 (7), 465-470

Schistosoma mansoni, humans with intestinal, hepato-intestinal and hepatosplenic compensated forms of infection, *Bacillus amyloliquefasciens* resulted in clinical and parasitologic cure, apparent enzymatic action on parasites

Drugs, Mode of action

Gutteridge, W. E.; and Coombs, G. H., 1977, Biochemistry of parasitic protozoa, 172 pp., illus.

biochemistry of parasitic protozoa, textbook: methodology; catabolism and generation of energy; nucleic acid metabolism; protein metabolism; lipid metabolism; biochemical mechanism of drug action; isolation of parasitic protozoa from infected animals; culture of parasitic protozoa

Drugs, Mode of action

Gutteridge, W. E.; Dave, D.; and Richards, W. H. G., 1979, Biochim. et Biophys. Acta, v. 582 (3), 390-401

Kinetoplastida spp., *Plasmodium* spp., conversion of dihydroorotate to orotate, mechanism of reaction different in these 2 groups of protozoa, possible target of chemotherapeutic attack

Drugs, Mode of action

Hajduk, S. L., 1979, J. Cell Sc., v. 35, 185-202

Crithidia fasciculata, *Trypanosoma equiperdum*, observations on dyskinetoplasty, possible mechanisms of acriflavine action

Drugs, Mode of action

Hamajima, F.; et al., 1979, Internat. J. Parasitol., v. 9 (3), 241-249

Clonorchis sinensis, *Metagonimus takahashii*, *Paragonimus miyazakii*, in vitro effects of bithionol and menichlopholan on motility, metabolism, and fine structure

Drugs, Mode of action

Hildebrandt, J.; Meingassner, J. G.; and Mieth, H., 1978, Zentralbl. Vet.-Med., Reihe B., v. 25 (3), 186-193

Eimeria tenella, kidney cell cultures, chickens (exper.), septamycin, activity largely confined to first generation schizont

Drugs, Mode of action

Hillman, G. R.; Gibler, A. M.; and Anderson, J. W., 1978, J. Pharmacol. and Exper. Therap., v. 207 (3), 992-997

Schistosoma mansoni, anticholinergic drugs as inhibitors of labeling of parasite by a fluorescent derivative of acetylcholine, scanning microfluorimetric system

Drugs, Mode of action

Hillman, G. R.; Senft, A. W.; and Gibler, W. B., 1978, J. Parasitol., v. 64 (4), 754-756

Schistosoma mansoni, hycanthone, mode of action, possible explanations of some discrepancies in results in published reports

Drugs, Mode of action

- Ho, Y. H.; and Yang, H. C., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 243-262
Schistosoma japonicum, egg formation and chemical nature of egg shell, histological and histochemical study, morphological changes in egg formation following treatment of infected mice with thiourea compounds

Drugs, Mode of action

- Iamov, V. Z.; and Kolesnik, N. V., 1978, Veterinariia, Moskva (11), 68-70
Hypoderma bovis larval stages, esterases, molecular forms, effect of inhibitors, including chlorophos

Drugs, Mode of action

- Ireland, C. M.; et al., 1979, Biochem. Pharmacol., v. 28 (17), 2680-2682
 relative effectiveness of several benzimidazole carbamates and related compounds on assembly of sheep brain microtubules in vitro and on infections of *Nematospiroides dubius* in mice

Drugs, Mode of action

- Jaffe, J. J.; et al., 1978, J. Parasitol., v. 64 (2), 193-197
Brugia pahangi-infected *Aedes aegypti* treated with sulfoxazole and methotrexate singly or in combination, average number of infective larvae recovered was half of that recovered from controls and many larvae recovered were small and sluggish, most likely mode of action is inhibition of synthesis de novo of dihydrofolate in either parasite or more likely in mosquito host (leading to folate-related nutritional deficiencies inimical to normal filarial larval development)

Drugs, Mode of action

- Jaffe, J. J.; and Chrin, L. R., 1978, J. Parasitol., v. 64 (4), 661-668
Brugia pahangi-infected and normal *Aedes aegypti*, methylenetetrahydrofolate dehydrogenase (MTHFD) and reductase (MTHFR) activity, change in folate metabolism with advanced infections; suramin inhibited MTHFR activity but not MTHFD; MTHFR activity detected in crude extracts of adult parasites differed from that in mosquitoes

Drugs, Mode of action

- Jones, R. L.; Davidson, M. W.; and Wilson, W. D., 1979, Biochim. et Biophys. Acta, v. 561 (1), 77-84
 chloroquine does not bind to DNA by classical intercalation mechanism typical of quinacrine and ethidium

Drugs, Mode of action

- Juan, S. M.; Cazzulo, J. J.; and Segura, E. L., 1979, Comp. Biochem. and Physiol., v. 63B (4), 531-535
Trypanosoma cruzi, inhibition of NADP-linked glutamate dehydrogenase by sulfhydryl reagents

Drugs, Mode of action

- Juan, S. M.; Segura, E. L.; and Cazzulo, J. J., 1979, Experientia, v. 35 (9), 1139-1140
Trypanosoma cruzi, NADP-linked glutamate dehydrogenase, inhibition by silver nitrate

Drugs, Mode of action

- Keystone, J. S.; and Murdoch, J. K., 1979, Ann. Int. Med., v. 91 (4), 582-586
 mebendazole, mode of action, pharmacokinetics, and clinical efficacy of approved and nonapproved uses, review over past 5 years

Drugs, Mode of action

- Khayyal, M. T.; et al., 1977, Egypt. J. Bilharz., v. 4 (2), 149-156
Schistosoma mansoni, mice, antimony potassium tartrate therapy given with penicillamine as adjuvant gives same therapeutic results with fewer side effects; ameliorates lipid changes in host but not in parasites

Drugs, Mode of action

- Khayyal, M. T.; et al., 1978, Egypt. J. Bilharz., v. 4 (1), 1977, 89-96
Schistosoma mansoni, effect of niridazole on lipid pattern of worms and serum and liver of infected and non-infected mice

Drugs, Mode of action

- Kim, K. H.; et al., 1979, J. Med. Chem., v. 22 (4), 366-391
 [Plasmodium] berghei, 646 1-aryl-2-(alkyl-amino)ethanol antimalarials, quantitative structure-activity relationship, mathematical analysis

Drugs, Mode of action

- Koehler, P.; and Bachmann, R., 1978, Molec. Pharm., v. 14 (1), 155-163
Ascaris suum muscle tissue, comparison of effects of levamisole, thiabendazole, chloroquine, and praziquantel on electron transport in *Ascaris* muscle submitochondrial particles

Drugs, Mode of action

- Koehler, P.; Bryant, C.; and Behm, C. A., 1978, Internat. J. Parasitol., v. 8 (5), 399-404
Fasciola hepatica, ATP synthesis in succinate decarboxylase system from mitochondria, inhibition in vitro by mebendazole and a soluble derivative of cambendazole

Drugs, Mode of action

- Kozhokaru, A. F.; and Topaly, V. P., 1976, Med. Parazitol. i Parazitar. Bolezni, v. 45 (2), 178-183
Fasciola hepatica total and mitochondrial lipids, ox brain total lipids, and ox heart mitochondrial lipids as sources of bimolecular phospholipid membranes in which proton conductivity induced by aromatic sulfides, sulfoxides, and sulfones correlated with their fasciolicidal effects and permitted toxicity evaluation

Drugs, Mode of action

- LaRusso, N. F.; et al., 1978, Antimicrob. Agents and Chemotherapy, v. 13 (1), 19-24
 absence of strand breaks in DNA treated with metronidazole

Drugs, Mode of action

- Leon, L.; et al., 1978, Exper. Parasitol., v. 45 (2), 151-159
Trypanosoma cruzi, effect of olivacine in vitro on growth, on macromolecular synthesis, on ultrastructure, and on respiration of epimastigotes, in vivo activity does not parallel in vitro effects

- Drugs, Mode of action
Lindmark, D. G.; and Mueller, M., 1976, *Antimicrob. Agents and Chemotherapy*, v. 10 (3), 476-482
metronidazole and 11 other nitroimidazoles, antitrichomonad activity against *Trichomonas foetus* and *Trichomonas vaginalis*, mutagenic action in *Salmonella* test, reducibility of nitro group by *T. foetus* homogenates, results underscore role of reduction of nitro group in antitrichomonad and mutagenic activity of nitroimidazoles
- Drugs, Mode of action
Lumbreras, H.; et al., 1972, *Rev. Peruana Med. Trop.*, v. 1 (2), 84-86
human uncinariasis, technique of Harada-Mori used to evaluate action of thiabendazole against viability of parasite eggs, inhibition and retardation of egg hatching was demonstrated
- Drugs, Mode of action
McBeath, D. G.; et al., 1978, *Equine Vet. J.*, v. 10 (1), 5-8
strongyle parasites, horses, fenbendazole effective against both adult and larval stages permitting anthelmintic treatment at less frequent intervals
- Drugs, Mode of action
McCormack, J. J.; et al., 1979, *Biochem. Pharmacol.*, v. 28 (21), 3227-3229
inhibition of dihydrofolate reductases by derivatives of 2,4-diaminopyrroloquinazoline, *Crithidia oncopelti* used as one source of reductases
- Drugs, Mode of action
McDougald, L. R.; and Galloway, R. B., 1977, *Ztschr. Parasitenk.*, v. 54 (1), 95-100
Eimeria tenella in vitro, development inhibited by serum from chickens fed anticoccidial drugs, technique to assay drug activity and to characterize and quantitate therapeutic effect
- Drugs, Mode of action
McManus, E. C.; and Rogers, E. F., 1979, *Exper. Parasitol.*, v. 48 (2), 235-238
Eimeria tenella, chickens, synergistic interaction of sulfaquinoxaline and t-butylaminoethanol
- Drugs, Mode of action
McQuiston, T. E.; and McDougald, L. R., 1979, *Ztschr. Parasitenk.*, v. 59 (2), 107-113
Eimeria tenella, surgical ligation of chick ceca used to study role of absorption and extraintestinal transport in action of anticoccidial drugs
- Drugs, Mode of action
Magzoub, M., 1971, *Sudan Med. J.*, v. 9 (3), 178-182
Schistosoma mansoni, untreated worms and worms treated with ambilhar or astiban, electron microscopy of cuticle, subcuticular region, and gut; possibility that egg formation is interrupted by either treatment
- Drugs, Mode of action
Magzoub, M., 1972, *Sudan Med. J.*, v. 10 (3), 145-148
Schistosoma mansoni adult worms removed from mice treated with chloroquine showed reduced exogenous glucose uptake, increased lactic acid production and reduced motility
- Drugs, Mode of action
Mansour, T. E., 1979, *Science* (4405), v. 205, 462-469
helminths, regulation of motility, metabolism, chemotaxis, and egg formation in relation to development of new and more selective chemotherapeutic agents, review
- Drugs, Mode of action
Marr, J. J.; Berens, R. L.; and Nelson, D. J., 1978, *Science* (4360), v. 201, 1018-1020
Trypanosoma cruzi, antiprotozoal effect of allopurinol can be accounted for by its in vivo transformation into a toxic adenine analog by the parasite
- Drugs, Mode of action
Matsuzawa, T., 1978, *Parasitology*, v. 77 (2), 235-241
Eimeria tenella, chickens, beclotiamine, mode of action studies; attempts to potentiate or antagonize its activity revealed that pyri-thiamine and 2,4-dinitrophenol also showed slight anticoccidial activity and that a combination of 2,4-DNP and beclotiamine was effective but weight gain was not as good as with beclotiamine alone
- Drugs, Mode of action
Melo, A. H.; Pereira, L. H.; and Correa, M. C. R., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (2), 158-159
Schistosoma mansoni, mice, high doses of oxamniquine produced inhibition of cercaria-schistosomulum transformation, suggests that drug is active during process of host-larvae adaptation
- Drugs, Mode of action
Meshnick, S. R.; et al., 1978, *J. Exper. Med.*, v. 148 (2), 569-579
Trypanosoma brucei brucei, attempt to develop new trypanocidal drugs based on inability of bloodstream form to decompose hydrogen peroxide, experiments with porphyrins, naphthoquinones, and arsenicals in vitro and in vivo, possible mechanisms of combination of agents
- Drugs, Mode of action
Meshnick, S. R.; et al., 1978, *J. Pharmacol. and Exper. Therap.*, v. 207 (3), 1041-1050
Trypanosoma brucei brucei, mice, rats, rabbits, evaluation of trypanocidal activity of series of porphyrins and metalloporphyrins, role of zinc in porphyrin-induced lysis
- Drugs, Mode of action
Meshnick, S. R.; Chang, K. P.; and Cerami, A., 1977, *Biochem. Pharmacol.*, v. 26 (20), 1923-1928
Trypanosoma brucei, *T. congolense*, heme lysis of bloodstream forms, *T. brucei*, lytic effect of porphyrins, in vitro and in vivo (mice) studies, mechanism of action believed to be homolytic cleavage of intracellular H_2O_2 to form hydroxyl radicals which can react with vital cell components and kill the organism
- Drugs, Mode of action
Moczon, T., 1976, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 24 (5), 289-292
Fasciola hepatica miracidia, inhibitory effect of pesticides on enzyme activity

Drugs, Mode of action

Monteiro, W.; Pellegrino, J.; and da Silva, M. L. H., 1969, Rev. Brasil. Pesqui. Med. e Biol., v. 2 (1), 45-49

Schistosoma mansoni-infected mice, physiological and morphological changes in parasite egg formation after mice were treated with one of 7 known antischistosomal drugs

Drugs, Mode of action

Montgomerie, A. M.; Proctor, G. R.; and Green, B., 1979, Biochem. Soc. Tr., v. 7 (6), 1251-1253

binding to DNA of indolobenzazepine analogue of antimalarial drug amodiaquine

Drugs, Mode of action

Mueller, M.; et al., 1979, Comp. Biochem. and Physiol., v. 64B (1), 97-100

Trichomonas foetus, Trichomonas vaginalis, Entamoeba invadens, effects of 2,4-dinitrophenol (including effect on accumulation of metronidazole)

Drugs, Mode of action

Neame, K. D.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 587-588

Schistosoma mansoni, hycanthone inhibits nucleic acid synthesis in vitro but it seems unlikely that this is mechanism by which drug kills worms in vivo

Drugs, Mode of action

Nelson, D. J.; et al., 1979, J. Biol. Chem., v. 254 (10), 3959-3964

Leishmania braziliensis, L. donovani, pyrazolo (3,4-d)pyrimidines, metabolism, possible explanation for antileishmanial activity

Drugs, Mode of action

Nelson, D. J.; et al., 1979, J. Biol. Chem., v. 254 (22), 11544-11549

Leishmania spp., allopurinol ribonucleoside as an antileishmanial agent: biological effects, metabolism, and enzymatic phosphorylation

Drugs, Mode of action

Newton, B. A., 1974, Ciba Found. Symp., n.s. (20), 285-307

trypanosomiasis, leishmaniasis, chemotherapy, review

Drugs, Mode of action

Nicholas, W. L.; and Stewart, A. C., 1979, Ann. Trop. Med. and Parasitol., v. 73 (1), 57-62

Toxocara canis, laboratory mouse, fenbendazole and oxfendazole killed larvae in brains and musculature, migratory larvae more susceptible, possible use in preventing pre-natal infection in dogs

Drugs, Mode of action

Novak, M.; and Evans, W. S., 1978, Canad. J. Zool., v. 56 (4), 604-607

Hymenolepis diminuta in Tribolium confusum, mebendazole, effect on different developmental stages of cysticercoids

Drugs, Mode of action

Nseka, K.; and Mueller, M., 1978, Compt. Rend. Soc. Biol., Paris, v. 172 (6), 1094-1098

Trichomonas foetus, Entamoeba invadens, effect of glycolysis inhibitors on uptake of metronidazole

Drugs, Mode of action

Oliveira, M. A.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (5), 298-300

Schistosoma mansoni, mice treated with oxamniquine vs. untreated mice, effects of drug on parasite migration and development in host

Drugs, Mode of action

Omer, A. H. S.; and Teesdale, C. H., 1978, Ann. Trop. Med. and Parasitol., v. 72 (2), 145-150

Schistosoma mansoni, S. haematobium, humans, single or mixed infections including some patients passing S. mansoni eggs in urine, efficacy of metrifonate, results suggest that site of infection rather than species of parasite renders parasite more susceptible to metrifonate and may further clarify mode of action of metrifonate: Khartoum, Sudan

Drugs, Mode of action

Parshad, V. R.; and Guraya, S. S., 1978, Vet. Parasitol., v. 4 (2), 111-120

4 helminth spp., comparison of phosphatases, effects of pH, various chemicals, and some anthelmintics on enzyme activity, anthelmintics may affect absorptive process in worms by virtue of their effect on phosphatase system at absorptive surfaces

Drugs, Mode of action

Pax, R.; Bennett, J. L.; and Fetterer, R., 1978, Arch. Pharmacol., v. 304 (3), 309-315

Schistosoma mansoni, S. japonicum, praziquantel and Ro 11-3128 produce rapid rise in tension of musculature, uptake studies of inorganic cations suggest that interference with inorganic ion transport mechanisms causes contraction of schistosome musculature

Drugs, Mode of action

Pellegrino, J.; and Machado, A., 1972, Rev. Brasil. Pesqui. Med. e Biol., v. 5 (1-2), 43-45

Schistosoma mansoni, mice and hamsters treated with thiosinamine, evidence of suppression of parasite egg laying process

Drugs, Mode of action

Peroutka, M.; and Cihar, R., 1978, Apidologie, v. 9 (4), 291-304

Nosema apis in drones (exper.), effect of pollen, pharyngeal gland secretions, and pteridines (stimulation, inhibition, or no effect) on parasite reproduction

Drugs, Mode of action

Phillips, L.; Sturman, G.; and West, G. B., 1975, Agents and Actions, v. 5 (5), 467

Ascaris suum, variations in histamine content, effect of piperazine

Drugs, Mode of action

Polak, A.; and Richle, R., 1978, Ann. Trop. Med. and Parasitol., v. 72 (1), 45-54

Trypanosoma cruzi in vivo and in vitro, benznidazole, effect on growth and viability, aerobic and anaerobic respiration, and synthesis of protein, RNA, and DNA

Drugs, Mode of action

Prichard, R. K., 1978, *Parasitology*, v. 76 (3), 277-288

Fasciola hepatica, metabolic profile of adult flukes obtained from rafoxanide-treated sheep, concluded that mode of action of rafoxanide in vivo is by uncoupling oxidative phosphorylation

Drugs, Mode of action

Prichard, R. K.; et al., 1978, *Vet. Rec.*, v. 102 (17), 382

Ostertagia ostertagi arrested 4th stage larvae, incorporation of C^{14} -labeled thia-bendazole no lower than that of adult worms, increased tolerance may be due to lower energy demands of arrested larvae, higher efficacy can be achieved by persistently high anthelmintic concentrations in host

Drugs, Mode of action

Prichard, R. K.; Hennessy, D. R.; and Steel, J. W., 1978, *Vet. Parasitol.*, v. 4 (4), 309-315

Haemonchus contortus, *Trichostrongylus colubriformis*, sheep, *Ostertagia ostertagi*, cattle, 4 benzimidazoles, mode of action and pharmacokinetic behavior, implications for prolonged administration as a new concept for increasing spectrum and effectiveness of anthelmintics

Drugs, Mode of action

Reiner, E.; et al., 1978, *Comp. Biochem. and Physiol.*, v. 60C (2), 155-157

Metastrongylus apri, cholinesterase, kinetic properties with respect to substrate hydrolysis and inhibition by organophosphorus compounds

Drugs, Mode of action

Richards, W. H. G.; and Maples, B. K., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 99-108

Plasmodium falciparum in continuous culture, effects of pyrimethamine and chloroquine on parasite growth and viability

Drugs, Mode of action

Rougemont, A.; et al., 1978, *Compt. Rend. Soc. Biol.*, Paris, v. 172 (2), 397-402

Onchocerca volvulus microfilariae under the influence of diethylcarbamazine, ultrastructural observations

Drugs, Mode of action

Rusak, L. V.; and Kovchur, V. N., 1972, *Parazitologiya*, Leningrad, v. 6 (1), 85-87

Hymenolepis nana, glycogen content in parasite tissues decreased after treatment of infected mice with aminoacrichine, phenasal, or trichlorophen, implications for mechanism of drug action

Drugs, Mode of action

Sanchez Moreno, M.; and Barrett, J., 1979, *Parasitology*, v. 78 (1), 1-5

Hymenolepis diminuta, adults, monoamine oxidase, occurrence and properties, inhibition by several anthelmintics

Drugs, Mode of action

Sanchez Moreno, M.; Monteoliva, M.; and Her-moso, R., 1978, *Rev. Iber. Parasitol.*, v. 38 (1-2), 415-426

Ascaris lumbricoides, in vitro, anthelmintics and pesticides, effects on motility

Drugs, Mode of action

Sasi, P. K.; and Raj, R. K., 1978, *Experientia*, v. 34 (9), 1156-1157

Ascaris lumbricoides has necessary mechanism for biosynthesis and degradation of phospholipids and triacylglycerols, piperazine decreases level of triacylglycerols of this parasite by stimulating activity of lipase and partially inhibiting activity of phosphatidate phosphatase

Drugs, Mode of action

Scheibel, L. W.; Adler, A.; and Trager, W., 1979, *Proc. National Acad. Sc.*, v. 76 (10), 5303-5307

Plasmodium falciparum, antimalarial effects of tetraethylthiuram disulfide and its reduction product diethyldithiocarbamate

Drugs, Mode of action

Schulman, M. D.; et al., 1979, *J. Parasitol.*, v. 65 (4), 555-561

Fasciola hepatica, rats, 4-amino-6-trichloro-ethenyl-1,3-benzenedisulfonamide, pharmacokinetic basis for efficacy

Drugs, Mode of action

Schuntner, C. A.; and Thompson, P. G., 1978, *Austral. J. Biol. Sc.*, v. 31 (2), 141-148

Boophilus microplus, larvae, ^{14}C labelled amitraz, metabolism, only amitraz and N-2,4-dimethylphenyl-N'-methylformamidine (metabolite) toxic to larvae, piperonyl butoxide applied simultaneously with amitraz had slight effect on metabolism, three-fold synergistic effect; SKF 525-A similarly applied had negligible effect on both metabolism and toxicity to ticks

Drugs, Mode of action

Schuntner, C. A.; and Thompson, P. G., 1978, *Austral. J. Biol. Sc.*, v. 31 (4), 317-325

Boophilus microplus, mechanisms of resistance of 2 strains to bromophos-ethyl

Drugs, Mode of action

Seed, J. L.; Boff, M.; and Bennett, J. L., 1978, *J. Parasitol.*, v. 64 (2), 283-289

Schistosoma mansoni, phenol oxidase, biochemical method for detection (enzyme activity induced by in vitro incubation of female schistosomes), enzyme properties and effects of various drugs upon its activity, appears to be associated with egg production and may serve as target for development of drugs, also as a useful marker for biochemical and immunological studies

Drugs, Mode of action

Seed, J. L.; Pratt, M. C.; and Bennett, J. L., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 508-514

Schistosoma mansoni, mice, chronic administration of disulfiram in diet blocks formation of egg shell in female schistosomes, reduces host mortality, and decreases granuloma formation; these results however are rapidly reversible

Drugs, Mode of action

Senft, A. W.; and Crabtree, G. W., 1977, *Biochem. Pharmacol.*, v. 26 (20), 1847-1856

Schistosoma mansoni, inhibition of adenine and guanine nucleotide synthesis by purine analogs in intact worms in vitro, implications in development of new anti-schistosomal drugs

Drugs, Mode of action

Shchelkanov, K. G.; and Epel'dimov, L. S., 1977, *Sborn. Nauch. Rabot SibNVI, Sibirsk. Nauchno-Issled. Vet. Inst.* (29), 76-80
Dictyocaulus, sheep, divezid, nilverm, and cyazone, changes in lung tissue of sheep and some tissues of parasite resulting from drug action

Drugs, Mode of action

Shirshov, A. T.; et al., 1975, *Izvest. Akad. Nauk SSSR, s. Biol.* (5), 759-765
Crithidia oncopelti, acriflavine, effect on structure of kinetoplast, kinetoplast DNA, protein synthesis in kinetoplast and cytoplasmic ribosomes; suggests that information required for synthesis of kinetoplast ribosomes is contained in kinetoplasts

Drugs, Mode of action

Sims, P.; and Gutteridge, W. E., 1978, *Biochem. Pharmacol.*, v. 27 (24), 2815-2820
Trypanosoma cruzi, inhibitory action of SQ18506 against nucleic acid synthesis

Drugs, Mode of action

Sims, P.; and Gutteridge, W. E., 1979, *Internat. J. Parasitol.*, v. 9 (1), 61-67
Trypanosoma cruzi, mode of action of SQ18506 considered to be inhibition of nucleic acid synthesis

Drugs, Mode of action

Sinden, R. E.; and Smalley, M. E., 1979, *Parasitology*, v. 79 (2), 277-296
Plasmodium falciparum, modified microculture technique used as bioassay for various antimetabolites by examining their ability to inhibit gametocytogenesis; characterization of sexual cell-cycle

Drugs, Mode of action

Singh, U. S.; Raizada, M. K.; and Rao, V. K. M., 1978, *Zentralbl. Bakteriол.*, 1 Abt. Orig., Reihe A, v. 241 (3), 358-367
Hartmannella culbertsoni, axenically grown, purification and properties of L-histidine ammonia-lyase, marked inhibitory effect of certain amoebicidal drugs and divalent cations

Drugs, Mode of action

Singhal, K. C.; Madan, B. R.; and Saxena, P. N., 1978, *Indian J. Physiol. and Pharmacol.*, v. 22 (1), 93-97
Setaria cervi, in vitro, action of diethyl-carbamazine on parasite spontaneous movement and glucose consumption

Drugs, Mode of action

Sinha, M.; Goswami, D. N.; and Das Gupta, N. N., 1978, *Indian J. Biochem. & Biophys.*, v. 15 (3), 162-165
daunomycin, berenil, dielectric studies on interaction with DNA

Drugs, Mode of action

Smith, C. K. II; and Strout, R. G., 1979, *Exper. Parasitol.*, v. 48 (3), 325-330
Eimeria tenella, accumulation and retention of lasalocid and narasin by extracellular sporozoites

Drugs, Mode of action

Spector, T.; Jones, T. E.; and Elion, G. B., 1979, *J. Biol. Chem.*, v. 254 (17), 8422-8426
Leishmania donovani promastigotes, adenylosuccinate synthetase and adenylosuccinate lyase, purification, properties, substrate and inhibitor specificities, selective amination of allopurinol ribonucleotide may be related to its antileishmanial activity

Drugs, Mode of action

Sukhareva-Nemakova, N. N.; Titova, T. S.; and Avakian, A. A., 1975, *Izvest. Akad. Nauk SSSR, s. Biol.* (2), 275-280
Crithidia oncopelti, comparative study of ultrastructure, cultures differing in sensitivity to olivomycin; lipid drops in cytoplasm of resistant protozoa; nature of action of olivomycin on sensitive parasites

Drugs, Mode of action

Tamas, T.; et al., 1978, *Poultry Science*, v. 57 (2), 381-385
Eimeria acervulina, *E. maxima*, *E. necatrix*, *E. tenella*, aprinocid and dichloro analog L-628,914 in feed, decrease in oocysts' capacity to sporulate

Drugs, Mode of action

Teel, P. D.; et al., 1978, *Comp. Biochem. and Physiol.*, v. 61C (2), 297-300
Amblyomma maculatum feeding on fenthion-infused sheep, evidence of cholinergic neurotransmitter involvement in overall nervous control of ixodid tick salivary fluid secretion, principal cause of death in systemic organophosphate-poisoned ixodid ticks may be disruption of normal salivary gland function

Drugs, Mode of action

Thomas, H.; and Goennert, R., 1977, *Ztschr. Parasitenk.*, v. 52 (2), 117-127
Hymenolepis nana and *H. microstoma* in mice, *H. diminuta* in rats, good results with praziquantel, in vivo mode of action (immobilization followed by paralysis)

Drugs, Mode of action

Verheyen, A.; et al., 1978, *J. Parasitol.*, v. 64 (3), 411-425
Taenia taeniaeformis, mebendazole medication of infected mice induced drastic time-related changes on surface topography of mature cysticerci, difference in susceptibility towards the drug between scolex, pseudoproglottids, and bladder in relation to morphology of their microtrichous covering

Drugs, Mode of action

Vincke, I. H., 1970, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 50 (3), 339-358
Plasmodium berghei berghei, mice, action of pyrimethamine and sulphamethoxine on pre-erythrocytic and sporogonous cycles

Drugs, Mode of action

Waladde, S. M., 1976, *Bull. Animal Health and Prod. Africa*, v. 24 (1), 73-79
Boophilus microplus and *Haemaphysalis longicornis* larvae, comparative toxicological and biochemical study of effects of coumaphos and coroxon in vitro

Drugs, Mode of action

- Wang, C. C.; et al., 1979, *Biochem. Pharmacol.*, v. 28 (15), 2249-2260
 arprinocid inhibits hypoxanthine-guanine transport, may be mode of anticoccidial action

Drugs, Mode of action

- Wang, C. C.; Simashkevich, P. M.; and Stotish, R. L., 1979, *Biochem. Pharmacol.*, v. 28 (15), 2241-2248
Eimeria tenella, mode of anticoccidial action of arprinocid

Drugs, Mode of action

- Warhurst, D. C.; and Thomas, S. C., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (3), 203-211
Plasmodium berghei, effect of some metabolic inhibitors upon chloroquine-induced pigment clumping

Drugs, Mode of action

- Warton, A.; and Modlinska, M., 1975, *Acta Parasitol. Polon.*, v. 23 (1-11), 127-133
Trypanosoma spp., mice, rats, effect of acriflavine on dynamics of trypanosome population size and formation of dyskinetoplastic forms in host blood

Drugs, Mode of action

- Watts, S. D. M., 1978, *Comp. Biochem. and Physiol.*, v. 60C (2), 109-114
Schistosoma mansoni, 153C51-treated parasites, unlikely that interference with glucose uptake observed in vitro in male parasites could be primary cause of schistosome death or even of physiological distress in vivo

Drugs, Mode of action

- Watts, S. D. M.; and Atkins, A. M., 1979, *Biochem. Pharmacol.*, v. 28 (17), 2579-2584
 effects of schistosomicide 1,7-bis(p-aminophenoxy)heptane (153C51) on lysosomes and membrane stability

Drugs, Mode of action

- Watts, S. D. M.; Orpin, A.; and MacCormick, C., 1979, *Parasitology*, v. 78 (3), 287-294
Schistosoma mansoni, tegument pathology following chemotherapy with 153C51, lysosomal involvement (accumulation of inclusions with characteristics of residual lysosomes, changes in localization of acid phosphatase), immunological factors probably not involved

Drugs, Mode of action

- Williamson, J.; and McLaren, D. J., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (6), 660-661
Trypanosoma rhodesiense, ultrastructural alterations induced by treatment with DAPI (new diamidine trypanocide)

Drugs, Mode of action

- Williamson, J.; and Scott-Finnigan, T. J., 1978, *Antimicrob. Agents and Chemotherapy*, v. 13 (5), 735-744
 trypanocidal activity of antitumor antibiotics and other metabolic inhibitors, microtest for rapid preliminary assay in vitro, parasite motility and infectivity for mice are indexes respectively of respiration and glycolysis and of cell division, implications of results for combination chemotherapy and deposit prophylaxis (with polyanions)

Drugs, Mode of action

- Winkelmann, E.; Raether, W.; and Gebert, U., 1978, *Arzneimittel-Forsch.*, v. 28 (10), 1682-1684
 activity of 16 novel 5-nitroimidazoles against protozoa in mice and golden hamsters, compared with metronidazole and tinidazole, structure-activity relationships

Drugs, Mode of action

- Woolhouse, N. M., 1979, *Biochem. Pharmacol.*, v. 28 (16), 2413-2418
 antischistosomal drugs, biochemical and pharmacological effects in relation to mode of action

Drugs, Mode of action

- Zahner, H.; et al., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 15-26
Litomosoides carinii in *Mastomys natalensis* (exper.), effect of diethylcarbamazine against microfilariae in several organs; dynamics of cell adhesion, immobilization, and elimination of microfilariae

Drugs, Mode of action

- Zaionts, V. I.; et al., 1976, *Khimiko-Farm. Zhurnal*, v. 10 (11), 20-29
 molecular mechanisms of action of some anticoccidial preparations, review

Drying. See Desiccation.

Dysentery

- Beurier, J., 1974, *Rev. Infirm. Afrique Noire* (24), 5-15
Entamoeba histolytica, human amoebic dysentery, brief clinical review

Dysentery

- Bloch, M.; Rivera G., H.; and Soundy C., J., 1976, *Rev. Inst. Invest. Med., San Salvador*, v. 5 (4), 385-394
E[ntamoeba] histolytica, analysis of syndromes considered as acute diarrheal diseases, differential diagnosis of amoebic dysentery from other forms of dysentery

Dysentery

- Mehta, A. P.; and Guirges, S. Y., 1979, *J. Trop. Med. and Hyg.*, v. 82 (7), 134-136
 acute amoebic dysentery tentively diagnosed as caused by *Acanthamoeba*, 16-year-old-male, case report, successfully treated with metronidazole: India

Dysentery

- Meyer, R. C., 1978, *Advances Vet. Sc. and Comp. Med.*, v. 22, 133-158
 swine dysentery, review (clinical and pathologic features, etiology, epizootiology, diagnosis, treatment)

- Ear**
Koishibaev, G. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 73-77
Stephanofilaria stilesi-infected cattle, pathomorphological changes in skin of the concha auriculae
- Ecdysis**
Araujo, P., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (2), 83-90
Ascaris lumbricoides, A. suum, Toxocara canis, larvae, early ecdyses, 2 distinct cuticles at extremities, probably 2 ecdyses before eclosion, third stage as infective form, and 5 ecdyses in life cycle
- Ecdysis**
Birova, V.; and Calvo, A., 1979, Poeyana (191), 10 pp.
Strongyloides avium in Gallus gallus f. domestica, some aspects of life cycle: observation of molt in host; pattern of oviposition of parasitic female
- Ecdysis**
Davey, K. G., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 935-939
Phocanema decipiens, discontinuous feeding behavior during moulting cycle in culture
- Ecdysis**
Davey, K. G., 1979, Internat. J. Parasitol., v. 9 (2), 121-125
Phocanema decipiens, molting, role of water uptake: dynamics of water movement in nematode activated by exposure to juvenile hormone vs. that in unactivated nematode
- Ecdysis**
Delbecque, J. P.; Diehl, P. A.; and O'Connor, J. D., 1978, Experientia, v. 34 (10), 1379-1381
Amblyomma hebraeum, presence of ecdysone and ecdysterone in nymphs, supports hypothesis that in ticks ecdysteroids are involved in hormonal control of moulting
- Ecdysis**
Devaney, E.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 227-233
Brugia pahangi and other sheathed microfilariiae, reproducible techniques for exsheathment in vitro under controlled conditions
- Ecdysis**
Devaney, E.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 387-392
Brugia pahangi, B. malayi, development of artificially exsheathed microfilariiae in cultures of mosquito cells
- Ecdysis**
Hopkins, D. E.; and Chamberlain, W. F., 1978, J. Econom. Entom., v. 71 (1), 25-26
Bovicola limbatus, 3rd instars, relationship between inhibition of ecdysis and time and quantity of ingestion of diflubenzuron (inhibitor of cuticle deposition), inhibition of ecdysis increased progressively as age of nymphs increased, timing of treatment important for control
- Ecdysis**
Isaac, I. S., 1977, J. Med. Entom., v. 13 (4-5), 609-611
Argas arboreus, effect of blood meal weight on nymphal instar numbers
- Ecdysis**
Koch, H. G.; and Hair, J. A., 1975, J. Med. Entom., v. 12 (2), 213-219
Amblyomma maculatum, effect of host species on engorgement weight, time, and success, molted weight, molted adult dimensions, and percentage of molting success, engorgement time and success were host-species dependent
- Ecdysis**
Maung, M., 1978, Internat. J. Parasitol., v. 8 (5), 371-378
Ascaris lumbricoides, A. suum, early stages of development in egg comprised two molts, both were initiated within egg but time of completion of 2nd molt varied considerably and in some instances was not completed until larvae reached liver of exper. infected animals
- Ecdysis**
Owen, R. R., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 397
Brugia pahangi, observation of erythrocytes attached to sheathed microfilariiae but never to cast sheaths or exsheathed worms, mechanism of attachment and function unknown but accumulation of erythrocytes along sheath may give additional rigidity to sheath thus allowing microfilaria to swim free of it
- Ecdysis**
Owen, R. R., 1978, in: Trop. Med. and Parasitol., v. 72 (6), 567-571
Brugia pahangi, levels of migration and exsheathment of microfilariiae in species of Aedes scutellaris complex as indicators to distinguish between refractory and susceptible mosquitoes
- Ecdysis**
Phillips, W. J.; and Cannon, L. R. G., 1978, J. Fish Dis., v. 1 (2), 137-149
Sacculina granifera infections of Portunus pelagicus, prevalence, host age and sex, seasonal distribution, influence of parasite upon host: morphological and behavioural modifications, inhibited moulting, male sterility: Moreton Bay, Queensland
- Ecdysis**
Rogers, W. P.; and Brooks, F., 1978, Internat. J. Parasitol., v. 8 (1), 55-58
Haemonchus contortus, leucine aminopeptidase in exsheathing fluid of North American and Australian juveniles, results support view that this enzyme is produced by juveniles and is concerned in exsheathment
- Ecdysis**
Rogers, W. P.; and Brooks, F., 1978, Internat. J. Parasitol., v. 8 (6), 449-452
Haemonchus contortus, relative levels of exsheathing and leucine aminopeptidase (LAP) activity in different preparations, effect of purifying LAP in exsheathing fluid on biological activity, concluded that LAP cannot be sole agent involved in exsheathment
- Ecdysis**
Semtner, P. J.; and Hair, J. A., 1976, J. Med. Entom., v. 13 (2), 216-217
Amblyomma americanum adults, molting time, overwintering survival, and longevity in selected woodlots: Cherokee Co., Oklahoma
- Ecdysis**
Siddiqi, M. N.; and Meerovitch, E., 1977, Pakistan J. Zool., v. 9 (1), 51-57
Trichinella spiralis, 3 newly isolated strains compared with classical strain during intestinal phase of infection in rats (moulting pattern, % recovery of adult worms, their size and sex ratio), significantly smaller size of worms in 3 new strains, inhibition of development expressed by host resistance as one of several possible causes

Ecdysis

- Uspenskii, I. V.; and Repkina, L. V., 1978, Zool. Zhurnal, v. 57 (7), 1092-1095
Ixodes persulcatus, mating and fertilization in relation to age and moulting

Ecology

- Alekseev, A. N., 1976, Med. Parazitol. i Parazitar. Bolezni, v. 45 (1), 3-14
blood-sucking arthropods, including some ticks and fleas, changes in fauna and quantity connected with industrial and agricultural development of environment, review: USSR

Ecology

- Andrews, C., 1979, J. Fish. Biol., v. 15 (2), 195-209
parasite fauna of *Perca fluviatilis*, host specificity, comparison with different localities in British Isles, factors affecting composition: Llyn Tegid, Wales

Ecology

- Bailey, C. H.; and Gordon, R., 1977, Canad. J. Zool., v. 55 (1), 148-154
Neomesomermis fluminalis in Simuliidae, spatial and host differences in rates of infection, temporal and (parasite) sex differences in emergence pattern of postparasites

Ecology

- Barrera, A., [1971], An. Inst. Biol., Univ. Nac. Mexico, v. 39 (1), s. Zool., 1968, 35-99
Siphonaptera, altitudinal distributions of fleas and hosts do not coincide, this lack explained by climatic factors influencing habitats of flea larvae and different levels of host specificity of adult fleas, four different strata or floors of faunistic composition identified: Popocatepetl Volcano and Trans-Volcanic Belt

Ecology

- Bartoli, P.; and Prevot, G., 1978, Ann. Parasitol., v. 53 (2), 181-193
Maritrema misenensis, ecological conditions required for life cycle, different intermediate hosts utilized in lagoon vs. marine habitat, method of infestation of second intermediate host, variation in parasitism of second intermediate host in relation to season and age and sex of host: region de Brusc, Provence, France

Ecology

- Bejsovec, J., 1975, Ang. Parasitol., v. 16 (2), 67-77
helminths and coccidia, possible transmission between domestic and wild gallinaceous birds, influence of change in biotopes due to shift from small to large-scale agricultural production: Czechoslovakia

Ecology

- Bejsovec, J., 1976, Ang. Parasitol., v. 17 (4), 196-207
Syngamus trachea in domestic and free-living birds, influence of ecological factors on occurrence and seasonal dynamics with particular attention to effect of large-scale farming: Czechoslovakia

Ecology

- Bejsovec, J., 1978, Ang. Parasitol., v. 19 (2), 76-85
Eimeria phasiani and *E. colchici* in *Phasianus colchicus*, dynamics of incidence dependent upon host biotope, host movements, season, temperature, and humidity: Mittelbohmen

Ecology

- Bennett, G. F.; Cameron, M.; and White, F., 1975, Canad. J. Zool., v. 53 (10), 1432-1442
hematozoa of passeriforms, prevalence, effect of climate, application of insecticide, and large-scale environmental alteration: New Brunswick

Ecology

- Berdyev, A., 1974, Parazitologiya, Leningrad, v. 8 (3), 227-233
Ixodidae, 4 types of "life schemes" distinguished on basis of ecological and life cycle studies

Ecology

- Betterton, C., 1979, Internat. J. Parasitol., v. 9 (4), 313-320
intestinal helminths of small mammals, patterns of parasitism with respect to host ecology: Peninsular Malaysia

Ecology

- Biswas, A. K., 1978, Water Supply & Management, v. 2 (4), 283-297
discussion on environmental implications of water development for developing countries: possibility of decreased human parasitism by improving potable water and by reducing human contacts with vectors of water-borne or water-based infections, also possibility of spread of parasitism through development of irrigation canals

Ecology

- Boiko, V. A.; Aiupov, A. S.; and Ivliev, V. G., 1973, Parazitologiya, Leningrad, v. 7 (6), 536-540
Ornithomya avicularia on birds, host size, age, habitat, and colonial vs. solitary habit, seasonal dynamics; possible role in circulation of virus of tick-borne encephalitis: Middle Povolzh'e

Ecology

- Bortone, S. A.; Bradley, W. K.; and Oglesby, J. L., 1978, J. Fish Biol., v. 13 (3), 337-350
copepods of *Menidia* spp., incidence, intensity, host-parasite interactions with emphasis on effect of host size, season, habitat, inter- and intraspecific parasite competition on host

Ecology

- Breev, K. A., 1977, Ang. Parasitol., v. 18 (4), 194-203
present trends in development of methodologies for parasite control with regard to environmental protection

Ecology

- Buck, A. A.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (1), 61-70
human poly-parasitism, epidemiological and ecological features, occurrence, frequency, and distribution of multiple infections in rural communities, age and sex patterns: Chad; Peru; Afghanistan; Zaïre

Ecology

- Callinan, A. P. L., 1978, Internat. J. Parasitol., v. 8 (3), 233-237
Ostertagia circumcincta, ecology of free-living stages, development and survival on herbage and soil: western Victoria, Australia

Ecology

- Callinan, A. P. L., 1978, Internat. J. Parasitol., v. 8 (6), 453-456
Trichostrongylus axei, ecology of free-living stages: development and survival of eggs and larvae, corresponding meteorological data: Pastoral Research Institute, Hamilton, Victoria, Australia

Ecology

- Callinan, A. P. L., 1979, Internat. J. Parasitol., v. 9 (2), 133-136
Trichostrongylus vitrinus, development and survival of free-living stages, some corresponding meteorological data: western Victoria, Australia

Ecology

- Carter, S. A., 1978, Internat. J. Environment. Studies, v. 12 (3), 199-205
Naegleria fowleri, human amoebic meningo-encephalitis, water pollution as major source of infection, epidemiology, prevention and control, review

Ecology

- Chernysheva, N. B., 1975, Izvest. Gosudarstv. Nauchno-Issled. Inst. Ozer. i Rech. Ryb. Khoz. aistva, Leningrad, v. 93, 117-120
 protozoans of young predatory fish, extent of infection correlated with some environmental factors

Ecology

- Chubb, J. C., 1970, Symposia Brit. Soc. Parasitol., v. 8, 119-144
 parasite fauna of British freshwater fish, relationship between parasite, host, and environment, lake and flowing water species of parasites compared

Ecology

- Craig, T. M.; and Bell, R. R., 1978, J. Am. Vet. Med. Ass., v. 173 (1), 104-107
Fasciola hepatica, *Fascioloides magna*, seasonal transmission to cattle pastured in 2 ecologically dissimilar areas of Texas, drug treatment in late summer, especially of young cattle, may considerably reduce *Fasciola hepatica* in snail vectors, while control of *Fascioloides magna* is not considered practicable at present time

Ecology

- Dolgikh, A. V., 1966, Respublik. Mezhvedomstv. Sborn., Akad. Nauk Ukrain. SSR, s. Biol. Moria, 134-139
 trematodes of molluscs, comparison of biocenoses: Crimean coast

Ecology

- Dunbar, J. R.; and Moore, J. D., 1979, J. Tennessee Acad. Sc., v. 54 (3), 106-109
 helminths of plethodontid salamanders, host specificity correlated with host habitat: Horse Cove area, Washington County, Tennessee

Ecology

- English, A. W., 1979, Austral. Vet. J., v. 55 (7), 299-305
 equine strongyles, free-living stages in feces and on pasture, seasonal changes in rates of development and survival: Moggill, Brisbane, Queensland

Ecology

- English, A. W., 1979, Austral. Vet. J., v. 55 (7), 306-309
 equine strongyles, infective larvae, survival and migration on herbage with reference to season, climatic conditions, and types of pasture: southern Queensland

Ecology

- Esch, G.; et al., 1976, Tr. Am. Micr. Soc., v. 95 (4), Finley Mem. Issue, pt. 2, 687-693
Epistylis-Aeromonas complex, centrarchid fish, incidence, spatial distribution of lesions, host size class (age), body condition, seasonal periodicity, influence of thermal effluent on disease: Par Pond reservoir, Savannah River Plant near Aiken, South Carolina

Ecology

- Esch, G. W.; Gibbons, J. W.; and Bourque, J. E., 1979, J. Parasitol., v. 65 (4), 633-638
 enteric helminths in *Chrysemys s. scripta* from variety of habitats, species diversity and mean number of parasite species per host, relationship of various life history strategies of helminth parasites and predictability (or stability) of local environmental conditions: Savannah River Plant, near Aiken, South Carolina

Ecology

- Euzeby, J., 1978, Rev. Med. Vet., Toulouse, v. 129 (2), 193-198, 201-222, 226-233
 gastro-intestinal helminthiasis, modern cattle breeding, control by environmental methods, review: western Europe

Ecology

- Fadzil, M., 1977, Vet.-Med. Nachr. (1), 44-52
Stephanofilaria kaeli, cattle, incidence in different ecological areas, role of *Staphylococcus aureus* and *S. albus* in setting up the inflammation; neguvon: malaysischen Halbinsel

Ecology

- Fadzil, M., 1977, Vet. Med. Rev. (1), 44-52
Stephanofilaria kaeli in cattle, prevalence, temperature and humidity in endemic areas favor vectors, *Staphylococcus* play important role in setting up inflammation, treatment with neguvon gave excellent results: west coast of Peninsular Malaysia

Ecology

- Filippova, N. A., 1971, Parazitologiya, Leningrad, v. 5 (5), 385-391
Ixodes pavlovskyi, *I. persulcatus*, distribution, characteristics of distribution areas with respect to their paleogenesis: USSR

Ecology

- Filippova, N. A., 1973, Parazitologiya, Leningrad, v. 7 (1), 3-13
Ixodes persulcatus group, species belonging to southern branch, zoogeography, ecology, paleontology, relationship to *I. ricinus*

Ecology

- Gagarin, V. G., 1979, Ekologiya, Sverdlovsk (1), 69-75
 nematodes, 4 ecological groups (hydrobiont, saprobiont, phytohelminth, zoohelminth), typical morphophysiological traits

Ecology

- Goff, M. L., 1979, Pacific Insects, v. 20 (4), 321-353
chiggers infesting land mammals, host and habitat relationships, parasitopes (attachment site on host body): Papua New Guinea

Ecology

- Golini, V. I.; and Sherry, J. P., 1979, Tr. Am. Micr. Soc., v. 98 (4), 572-576
larvae of *Chironomus plumosus* parasitized by mermithid identified as very likely *Octomyomermis itascensis* with subsequent colonization by bacteria, fungi, and ciliated protozoa, role of parasites and saprophytic microorganisms in population control of chironomids and in decomposition of complex organic matter in benthic environment: Lake Ontario

Ecology

- Gray, J. S.; Turley, T.; and Strickland, K. L., 1978, Irish Vet. J., v. 32 (2), 25-34
Ixodes ricinus, ecology, comparison of 2 methods of population assessment (blanket dragging and counts on sheep), seasonal activity appears to be independent of weather; no correlation between tick activity and redwater fever, strong correlation between redwater fever incidence and air temperature: Co. Wicklow, Ireland

Ecology

- Guttekova, A.; and Zmoray, I., 1979, Biologia, Bratislava, s. B, Zool. (1), v. 34 (2), 97-105
Nematodirus filicollis, ultrastructure of body wall and intestine, influence of ecological factors on morphogenesis, phylogenetic aspects

Ecology

- Guttowa, A.; and Boniecka, B., 1977, Acta Parasitol. Polon., v. 24 (28-34), 315-322
Fasciola hepatica, *Trienophorus nodulosus*, embryos, in vitro effects of pesticides Vapam and Lebaycid, implications for effects of environmental pollution on structure of ecosystems

Ecology

- Hafez, M.; Hilali, M.; and Fouda, M., 1979, Ztschr. Ang. Entom., v. 87 (3), 327-335
Hippobosca equina, ecological studies: host preference, seasonal abundance, adult habits, effect of host sex and colour on attraction of flies, mating behaviour, distribution on host body, sex ratio, breeding season: El-Aziziya village, El-Faiyum governate, Egypt

Ecology

- Hazen, T. C.; and Esch, G. W., 1978, J. Fish Biol., v. 12 (5), 411-420
Clinostomum marginatum in *Micropterus salmoides*, infection percentages compared in thermal and ambient parts of a reservoir, relationship to body condition and length of host, seasonal changes: Par Pond, near Aiken, South Carolina

Ecology

- Holland-Moritz, W.; Nickel, S.; and Hiepe, T., 1977, Monatsh. Vet.-Med., v. 32 (23), 889-893
Fasciola hepatica, calves, *Galba truncatula*, epizootiology (ameliorated and unameliorated pastures, population density of *G. truncatula*, soil structure, vegetation, hydrological and climatic factors); importance of melioration for complex fascioliasis control program: Potsdam, East Germany

Ecology

- Ishimoto, Y., 1974, Japan. J. Vet. Research, v. 22 (1-2), 13-31
helminths of voles, ecology, age and sex of host, seasonal changes: Nopporo National Forest, east of Sapporo, Hokkaido, Japan

Ecology

- Jackson, J. A.; and Nickol, B. B., 1979, J. Parasitol., v. 65 (1), 167-169
Mediorhynchus centurorum, host specificity for *Melanerpes carolinus* is thought to result from differences in nesting sites, nest sanitation, foraging behavior, and food items among woodpeckers: Louisiana

Ecology

- Jacobs, D. E., 1978, Vet. Ann. (18), 220-224
Uncinaria stenocephala, dogs, prevalence in kennels influenced by host age, bionomics, epidemiology, review: United Kingdom

Ecology

- Jurik, M., 1976, Acta Univ. Agric., Fac. Agrom., Brno, v. 24 (1), 161-169
avian and mammalian fleas, analysis of exchange of habitats

Ecology

- Jurik, M., 1978, Acta Univ. Agric., Fac. Agrom., Brno, v. 26 (1), 111-116
fleas, ecological factors contributing to suitability of individual bird species as hosts

Ecology

- Kazakov, B. E., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 64-70
helminths of freshwater fish, list of species and hosts, brief analysis by ecological groups: Kol'skii peninsula, USSR

Ecology

- Kearn, G. C., [1979], J. Parasitol., v. 64 (6), 1129-1130
Pseudoleptobothrium aptychotremae on skin of *Aptychotrema banksi* in seawater tank was preyed upon by other fish in tank

Ecology

- King, C. M., 1976, J. Zool., London, v. 180 (4), 525-535
fleas of *Mustela nivalis*, seasonal distribution, host specificity, origin of fleas on host: Wytham Woods, near Oxford

Ecology

- Kisielewska, K., 1978, Kosmos, Warsaw (154), s. A, Biol., v. 27 (5), 493-516
ecological parasitology, relationships among host, parasite, and environment, terminology, methods of study, various international programs, extensive review

Ecology

- Klimova, Z. I.; et al., 1970, Parazitologiya, Leningrad, v. 4 (5), 437-443
burrow microbiocoenoses of *Rhombomys opimus*, taxonomic and ecological groups of arthropods: northern Kyzylkum, Kyzylordinsk oblast, Kazakhsk SSR

Ecology

- Konovalov, S. M.; Shevliakov, A. G.; and Krasin, V. K., 1970, Parazitologiya, Leningrad, v. 4 (6), 547-556
parasite fauna of various groups of young *Oncorhynchus nerka*, comparative analysis reveals 3 ecological groups: Lake Azabach'e, Kamchatka river basin

Ecology

Korenberg, E. I.; et al., 1978, *Biul. Moskov. Obshch. Ispyt. Priro.*, Otdel Biol., v. 83 (4), 5-14

Ixodes persulcatus, spatial structure and abundance of populations, long term studies: Kirovsk oblast; Udmurtsk ASSR

Ecology

Kosminskii, R. B.; et al., 1979, *Vestnik Zool.*, Akad. Nauk Ukrainsk. SSR, Inst. Zool. (2), 48-53

Amphipsylla rossica, ecology, field and laboratory studies: feeding, reproduction, development, survival, and longevity under various conditions of temperature and humidity; age composition and physiological state of populations in different months; abundance on *Microtus arvalis* and in its nests and burrow entrances in different months: Transcaucasian highlands

Ecology

Kranenburg, W., 1978, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 91 (3), 46-48

Paramphistomum cervi, cattle, incidence in 3 different marshy areas in North Germany, presence of mature cercariae in *Planorbis planorbis* and *Anisus vortex* in spring suggests that parasite overwinters in the snails

Ecology

Kunz, T. H., 1976, *J. Med. Entom.*, v. 12 (6), 631-636

Trichobius corynorhini on hibernating *Plecotus townsendii*, parasite distribution on host, frequency and levels of infestation in relation to host density and clustering behavior and sex, value of these adaptations

Ecology

Lanotte, G.; et al., 1978, *Ann. Parasitol.*, v. 53 (1), 33-45

leishmaniasis, analysis of canine enzootic, sampling methods, relationship between prevalence of infection and density of sandfly vector, phyto-ecologic map: France

Ecology

Leong, T. S.; et al., 1979, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 10 (1), 122-126

parasites of *Rattus r. diardii*, influence of human habitats on rat parasite fauna: Kuala Lumpur and nearby villages

Ecology

Lewis, R. E.; Siler, J. R.; and Olmsted, L. L., 1977, *Proc. 31. Ann. Conf. Southeast. Ass.*

Fish and Wildlife Agencies, 372-379

Epistylis [sp.], fishes, host specificity, intensity of infestation, attachment site, factors affecting prevalence (host length, water quality, season): North Carolina

Ecology

Llewellyn, J. B., 1978, *Great Basin Nat.*, v. 38 (1), 51-54

Cuterebra sp., differential parasitism of sympatric *Peromyscus maniculatus* and *P. truei* may be due to host specificity, differential parasitism of *P. maniculatus* may be due to habitat selection: Nevada

Ecology

Lomakin, V. V., 1974, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 24, 86-96

nematodes of fishes, ecological-faunistic analysis, families and feeding habits of fishes, host specificity, review: Caspian Sea

Ecology

Loose, L. D.; et al., 1978, *Infect. and Immun.*, v. 20 (1), 30-35

polychlorinated biphenyl- and hexachlorobenzene-treated mice, impaired resistance to bacterial endotoxin and to *Plasmodium berghei*, data indicate that environmental chemicals impair host resistance and that the alteration may be related to presence of the chemicals in the lymphoreticular organs

Ecology

MacKenzie, K.; and Gibson, D. I., 1970, *Symposia Brit. Soc. Parasitol.*, v. 8, 1-42

ecological studies of parasites of *Pleuroctes platessa* and *Platichthys flesus*: Scotland

Ecology

MacLeod, J.; and Mwanaumo, B., 1978, *Bull. Entom. Research*, v. 68 (3), 409-429

ixodid ticks of wild animals and cattle, anomalous infestation patterns in 3 ecologically different areas, seasonal distribution: Zambia

Ecology

Makhovenko, E. T., 1972, *Parazitologiya*, Leningrad, v. 6 (4), 369-375

Salvelinus alpinus inhabiting different ecological niches, possible use of differences in parasite fauna between groups as biological tags: Lake Azabach'e, Kamchatka

Ecology

Malloy, D., 1979, *J. Nematol.*, v. 11 (4), 321-328

Mesomermis camdenensis n. sp., life cycle, bionomics

Ecology

Merkusheva, I. V., 1976, *Vestsi Akad. Navuk BSSR, s. Biial. Navuk* (4), 88-94

helminths of murine rodents, changes in parasite fauna compared to changes in forest biotope over several years: Belorussian Polesia

Ecology

Mills, C. A., 1979, *Internat. J. Parasitol.*, v. 9 (6), 603-608

Transversotrema patialense, cercarial, post-cercarial, and adult stages, influence of differing ionic environments on survival and infectivity

Ecology

Mirzoeva, L. M., 1972, *Parazitologiya*, Leningrad, v. 6 (3), 252-258

Sinergasilus lienii, life cycle and biology: description of developmental stages, rate of development, duration of life, numbers of generations, incidence and intensity on fish hosts, effect of temperature and hydrochemical conditions: Moskovsk oblast; Krasnodarsk kraia

Ecology

Mullarskaia, L. V., 1972, *Parazitologiya*, Leningrad, v. 6 (6), 540-545

Trombiculidae, numbers and specific variety in foothill, mountain, and alpine zones compared: Caucasus Minor, Azerbaidzhan

Ecology

- Murray, J.; et al., 1978, Am. J. Clin. Nutrition, v. 31 (8), 1363-1366
children with syndrome of enlarged parotids, localized forehead edema, heavy infestation with *Ascaris lumbricoides*, and unusual freedom from malaria, piperazine treatment of ascariasis resulted in attacks of malaria, suppression of malaria may be nutritional consequence of severe ascariasis and may represent ecological balance for optimum co-survival of host and two parasites: Anjouan, Comorro archipelago

Ecology

- Mzembe, S. A. T.; and Chaudhry, M. A., 1979, Trop. Animal Health and Prod., v. 11 (4), 246-250

Fasciola gigantica, ecology of intermediate host, *Lymnaea natalensis*; seasonal distribution of fluke infestation in snail: Malawi

Ecology

- Nel'zina, E. N., 1971, Parazitologiya, Leningrad, v. 5 (3), 266-273
nest-burrow microbiocenosis of small suslik and some gerbil species, structural characteristics, position and importance in system of biogeocenosis

Ecology

- Ørnbjerg Christensen, N.; Frandsen, F.; and Nansen, P., 1979, Ztschr. Parasitenk., v. 59 (3), 267-275
Schistosoma mansoni cercariae, mice, host-penetrative capacity under selected environmental exposure conditions and in relation to some parasite- and final-host-related factors

Ecology

- Okulova, N. M., 1978, Ekologiya, Sverdlovsk (2), 44-48
ixodid ticks, vertical and horizontal movements in forest conditions, dependent upon air temperature and humidity

Ecology

- Osipova, N. Z., 1971, Parazitologiya, Leningrad, v. 5 (3), 274-280
gamasid mites, distribution, landscape and habitat adaptation, host relationships, seasonal dynamics: Chuisk valley, Kirgiz SSR

Ecology

- Palatkin, K. A., 1978, Vestnik Sel'skokhoz. Nauki Kazakhstana (6), 71-73
[*Eurytrema* sp.] metacercariae, infection of grasshoppers on pastures in various ecological zones: southwestern Kazakhstan

Ecology

- Pence, D. B.; and Meinzer, W. P., 1979, Internat. J. Parasitol., v. 9 (4), 339-344
helminth fauna of *Canis latrans*, low similarity with those from other geographic regions in North America, associations between pairs of species in terms of frequency of occurrence, mean levels of infection in presence or absence of other species, host age and sex effects: West Texas

Ecology

- Protopopian, M. G.; et al., 1975, Parazitologiya, Leningrad, v. 9 (2), 165-174
specific composition of arthropod populations inhabiting burrows of *Rhombomys opimus* in natural plague nidus, different ecological groups, structure of microbiocenosis: Caspian part of Ural-Embinsk inter-river area

Ecology

- Quillevere, D.; et al., 1977, Cahiers O.R.S.T.O.M., s. Entom. Med. et Parasitol., v. 15 (4), 301-329
Onchocerca volvulus in *Simulium* spp. females, comparison of host bio-ecology and vector potential, parasitism as basis for calculating theoretical composition of a biting population of flies: Cote d'Ivoire, Afrique de l'Ouest

Ecology

- Raizada, R. N.; and Nagar, S. K., 1979, Indian J. Animal Sc., v. 49 (8), 622-628
Boophilus microplus, abundance and distribution in relation to environmental conditions; site preferences for feeding on cows and buffalo: Uttar Pradesh

Ecology

- Rohde, K., 1977, Zool. Anz., Jena, v. 199 (3-4), 164-172
distribution of monogenean and copepod ectoparasites on gills of tropical marine fish and fish from cold-temperate seas, evidence that restricted microhabitat leads to intraspecific contact and, thus, facilitates mating

Ecology

- Rohde, K., 1977, Ztschr. Parasitenk., v. 53 (2), 171-182
Heteromicrocotyla australiensis sp. nov., *Heteromicrocotyloides mirabilis* gen. and sp. nov., *Caligus fortis*, habitat partitioning (each parasite on separate section of gills in clearly defined niches, each morphologically adapted to its microhabitat)

Ecology

- Rohde, K., 1978, Biol. Zentralbl., v. 97 (4), 405-418
gill parasites of marine fish, species numbers and microhabitat utilization at different latitudes, assumption of greater evolutionary speed in tropics as probable explanation of latitudinal gradients in species diversity (more species in tropical than in cold water fishes)

Ecology

- Rohde, K., 1979, Am. Naturalist, v. 114 (5), 648-671
ectoparasites of fish, particularly Monogenea, critical evaluation of intrinsic and extrinsic factors responsible for niche restriction

Ecology

- Roundy, R. W., 1978, Social Sc. and Med., v. 12 (2D), 121-130
model for combining human behavior and disease ecology to assess disease hazard in a community: rural Ethiopia

Ecology

- Rykovskii, A. S., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 74-79
features and characteristic disposition of helminths within limits of geographic range, place and role of helminths in biocenoses, review

Ecology

- Rykovskii, A. S., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 144-152
helminth fauna composition in wild ungulates in agricultural and forestry conditions, possible source of livestock infection, review, suggested measures for control: European part of USSR

Ecology

Samuel, W. M.; Trainer, D. O.; and Glazener, W. C., 1971, *J. Wildlife Dis.*, v. 7 (3), 142-146

Cephenemyia spp. on *Odocoileus virginianus*, prevalence and numbers, seasonal distribution, age and sex of host, habitat: Welder Refuge, San Patricio County, south Texas

Ecology

Sankurathri, C. S.; and Holmes, J. C., 1976, *Canad. J. Zool.*, v. 54 (10), 1742-1753

parasites and commensals (*Oligochaeta* and larval *Digenea*) of *Physa gyrina* in control area vs. area affected by thermal effluents, prevalence, seasonal changes, interactions (including ingestion of cercariae by oligochaete), ecological model: Lake Wabamun, Alberta

Ecology

Sherkov, S. N.; and El Rabie, Y., 1977, *Egypt. J. Vet. Sc.*, v. 13 (2), 1976, 89-97

Linguatula serrata, domestic animals, survey, highest intensity of invasion in mountainous areas, seasonal distribution, absence of infection in young animals, control measures: Jordan

Ecology

Sinniah, B.; Singh, M.; and Anuar, K., 1979, *J. Helminth.*, v. 53 (2), 147-152

Capillaria hepatica in rats, prevalence in relation to host age, sex, and habitat, localized foci of infection: Malaysia

Ecology

Sonin, M. D., 1973, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 23, 159-174

Filariata, ecological relationships of intermediate and definitive hosts, review

Ecology

Sosnina, E. F., 1970, *Parazitologiya*, Leningrad, v. 4 (4), 371-374

sucking lice on small rodents, infestation in relation to type of forest, host age and sex, and season: Crimean mountains

Ecology

Sosnina, E. F.; and Davydov, G. S., 1975, *Parazitologiya*, Leningrad, v. 9 (2), 183-189

Neohaematopinus palaeartus infestation of *Marmota caudata* in relation to geographic regions and vertical zones, season, host activity period (hibernation, reproduction, etc.), host age and sex, age and sex structure of louse populations: Tadzhikistan

Ecology

Sri Oemijati; et al., 1978, *Trop. and Geogr. Med.*, v. 30 (3), 301-304

Brugia malayi, human, decrease in filariasis with development of irrigation system and conversion of swamps into rice-fields, reduced breeding sites for *Mansonia*: Kresek, West Java, Indonesia

Ecology

Stpiczynska, R.; Rzczkowska, A.; and Guttowa, A., 1978, *Bull. Acad. Polon. Sc.*, Cl. II, s. Sc. Biol., v. 26 (6), 405-410

Fasciola hepatica, stimulatory effect of pesticides on invasive activity of miracidia and on asexual reproduction of larvae in *Lymnaea tomentosa* snails

Ecology

Threlfall, W.; and Goudie, R. I., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (2), 229-232

Microphallus pygmaeus and *Cercaria parvicauda* data in *Littorina saxatilis*, intensity and extensity of infection by sex and size of host, and month; host reproductive capacity; experimental infection in mice: Gull Island, Witless Bay and Newman's Sound, Newfoundland

Ecology

Tokobaev, M. M., 1976, [Helminths of wild mammals of Central Asia. Attempt at ecological-geographic analysis], 178 pp.

helminths, wild mammals, systematics, ecological-geographic analysis, monograph: Central Asia

Ecology

Traub, R., 1977, *J. Med. Entom.*, v. 13 (6), 658-685

Tiflovia n. gen., taxonomy, convergent evolution, zoogeography and ecology

Ecology

Tukahirwa, E. M., 1976, *Bull. Entom. Research*, v. 66 (2), 301-312

Rhipicephalus appendiculatus, temperature, humidity, and vegetation, effects on development and survival

Ecology

Vasil'ev, G. I.; Elistratova, N. P.; and Lazareva, L. A., 1979, *Ekologiya*, Sverdlovsk (1), 97-99

Paradoxopsyllus scorodumovi parasitizing *Ochotona pricei* in plague focus, ecology: seasonal distribution, abundance on animals, in nests, and in burrow entrances, age and sex composition of populations, high alimentary activity: Gorno-Altai

Ecology

Vasil'eva, I. S., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (1), 42-49

Ornithodoros tartakovskyi, numbers in burrows of various animals, determining ecological factors: southern Tadzhikistan

Ecology

Vladimirov, V. L.; and Flerov, B. A., 1975, *Inform. Biul. Inst. Biol. Vnutren. Vod*, Akad. Nauk SSSR (25), 35-37

Ichthyophthirius multifiliis, fish more susceptible when exposed to phenol or polychlorpinene (toxic water pollutants)

Ecology

Wang, K., 1961, Tung Wu Hsueh Pao (*Acta Zool. Sinica*), v. 13 (1-4), 154-170

Argulus spp., key, ecology and life history

Ecology

Whitlaw, J. T., jr.; and Chaniotis, B. N., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 873-881

Trypanosoma cruzi, ecological survey of triatomine vectors disclosed close association of *Rhodnius pallescens* and *Triatoma dimidiata* with widely distributed palm tree species; *Didelphis marsupialis*, *Tamandua tetradactyla*, and *Proechimys semispinosus* seem to be principal animal reservoirs: Panama

Ecology

Williams, H. H., 1969, *Norwegian J. Zool.*, v. 17 (1), 1-56

Acanthobothrium, taxonomy, host-specificity, ecology, biology, host-parasite list

Ecology

Wilson, R. A.; and Taylor, S. L., 1978, Parasitology, v. 76 (1), 91-98

Fasciola hepatica in *Lymnaea truncatula*, curvilinear relationship between miracidial density and snail density as manifested by successful establishment of an infection in snail host, level of parasitization not related exponentially to temperature, depth of free water overlying mud surface was absolute requirement for miracidia to successfully infect snails

Ecology

Wrenn, W. J., 1974, J. Kansas Entom. Soc., v. 47 (2), 227-238

chiggers, host-parasite relationships, and ecological preferences: Douglas Lake region, northern Michigan

Ecology

Zolotov, P. E.; et al., 1974, Parazitologiya, Leningrad, v. 8 (2), 116-122

Ixodes persulcatus, *I. ricinus*, ecology, seasonal activity: Leningrad oblast

Ecology

Zonov, G. B.; and Iakuba, V. N., 1971, Parazitologiya, Leningrad, v. 5 (3), 289-290

ectoparasites found in uninhabited tree hollows, possible places of contact with hosts: focus of tick-borne encephalitis in Predbaikal

Ecology, Populations

Anderson, R. M., 1978, Parasitology, v. 76 (2), 119-157

regulation of host population growth by parasitic species

Ecology, Populations

Anderson, R. M., 1978, Parasitology, v. 77 (2), 201-224

snail infection by miracidia, population framework and Basic Model, rate of infection, infective stage density, host density, role of chance, miracidial mortality and age-dependent infectivity, heterogeneity between snails with respect to susceptibility and 'attractiveness'

Ecology, Populations

Anderson, R. M.; and May, R. M., 1978, J. Animal Ecol., v. 47 (1), 219-247

population models of host-parasite interactions, role of parasite in regulating host population growth

Ecology, Populations

Anderson, R. M.; and May, R. M., 1979, Nature, London (5721), v. 280, 361-367

parasitic infections as regulators of host populations, mathematical models

Ecology, Populations

Anderson, R. M.; Whitfield, P. J.; and Dobson, A. P., 1978, Parasitology, v. 77 (2), 189-200

Transversotrema patialense infections in *Brachydanio rerio*, overdispersion in distribution of successful infections/host can be generated within laboratory infection arenas, degree of over-dispersion or aggregation of parasites within host population increases as both infective-stage density and time of exposure to infection increases, stochastic simulation studies demonstrate that heterogeneity in host susceptibility to infection is probable generative cause of such patterns, variability in host susceptibility is most probably generated by differences in behavior

Ecology, Populations

Ayala, S. C.; et al., 1977, Rev. Inst. Med.

Trop. S. Paulo, v. 19 (6), 411-416

Haemoproteus, *Plasmodium*, and *hippoboscids* ectoparasites of *Zenaida auriculata caucae*, infection patterns and dove population dynamics, seasonal prevalence: Cauca River valley, Colombia

Ecology, Populations

Baxter, J. M.; and Jones, A. M., 1978, Marine Biol., v. 46 (4), 305-313

Minchinia chitonis-infected mollusc, *Lepidochitona cinereus*, host growth and population structure, infection caused enhanced growth and deviation from normal growth curve: Easthaven, Scotland

Ecology, Populations

Beck, J. T., 1979, Parasitology, v. 79 (3), 431-449

Probopyrus pandalicola-infected *Palaemonetes paludosus*, distribution, infection levels by site and season and by host sex and size, parasite burden, regulation of host-parasite (parasitic castrator) interactions: Florida

Ecology, Populations

Betterton, C., 1979, Malayan Nature J., v. 32 (3-4), 271-279

Transversotrema patialense, incidence in fish and snails, size of host, ecology, cercarial productivity of *Melanoides tuberculata*: Sungai Bayan Lepas, Penang, Malaysia

Ecology, Populations

Beverley-Burton, M., 1978, Environment. Biol. Fish., v. 3 (4), 369-377

Anisakis simplex in *Salmo salar*, parasite population genetics (acid phosphatase phenotypes), use as biological indicators of host stocks: Atlantic Ocean

Ecology, Populations

Borisova, V. I., 1972, Parazitologiya, Leningrad, v. 6 (5), 457-464

ecology of nest parasites of birds with emphasis on *Dermanyssus hirundinis*, *Ceratophylus gallinae*, and *Carnus haemapterus*, seasonal changes in populations, adaptation of life cycles to host life cycles: Tatar ASSR

Ecology, Populations

Boxrucker, J. C., 1979, Parasitology, v. 78 (2), 195-206

metazoan parasites of *Ictalurus melas*, seasonal incidence and abundance in thermal outfall area vs. unaltered area, thermal effluent had little effect on incidence, differences in abundance are considered due to factors other than temperature: Lake Monona, Dane County, Wisconsin

Ecology, Populations

van den Broek, W. L. F., 1979, J. Fish Biol., v. 14 (4), 395-402

Cryptocotyle lingua, incidence and intensity of infection, seasonal levels of infection prove useful indicators to migratory movements of individual fish populations, localization, host age: Medway Estuary, Kent

Ecology, Populations

Buettiker, W.; and Lewis, D. J., 1979, Tropenmed. u. Parasitol., v. 30 (2), 220-229

Leishmania tropica, ecological studies of human dermal leishmaniasis epidemic, correlated with survey for possible *Phlebotomus* vectors and reservoir hosts: Hofuf, Eastern Saudi Arabia

Ecology, Populations

Bull, C. M., 1978, Austral. J. Zool., v. 26 (4), 689-697

Aponomma hydrosauri, dispersal distance measured by host movement, tests with paint-marked and radio-marked *Trachydosaurus rugosus*: near Tickera, Yorke Peninsula, South Australia

Ecology, Populations

Bull, C. M., 1978, Ecol. Entom., v. 3 (3), 171-179

Aponomma hydrosauri on *Trachydosaurus rugosus*, infestation levels and patterns, model proposed relating tick distribution pattern to particular problems of finding a host: near Tickera, South Australia

Ecology, Populations

Bull, M.; and Sara, G. J., 1976, J. Med. Entom., v. 13 (2), 137-142

Aponomma hydrosauri, esterase polymorphism controlled by 2 alleles at single locus, geographical distribution of allele frequencies, implications for population structure: upper Yorke Peninsula and Murray Mallee district, South Australia

Ecology, Populations

Burrough, R. J., 1978, J. Fish Biol., v. 13 (1), 19-32

Tyloodelphys clavata and *Diplostomum spathaceum* in roach, rudd, and roach/rudd hybrids, population biology, seasonal changes in incidence, intensity of infection, and frequency distribution, relationship of infection to fish size (age)

Ecology, Populations

Butter, M. E., 1979, Bijdr. Dierk., Amsterdam, v. 48 (2), 141-155

Corallonoxia longicauda in *Meandrina meandrites*, occurrence and infestation rates in relation to depth, colony size, and environmental factors, parasite morphology, age of parasite and host, spatial distribution of parasite within colony, limited effect of parasite on host: S. W. and N. E. coasts of Curacao, Netherlands Antilles

Ecology, Populations

Casto, S. D., 1976, J. Med. Entom., v. 13 (3), 357-360

Syringophiloides minor, population development in juvenal and nuptial plumages of *Passer domesticus*, winter dispersal, dispersal into unoccupied coverts of adult birds not observed, effect of dispersal on population composition, population dynamics in the 2 plumages

Ecology, Populations

Chabaud, A. G.; and Durette-Desset, M. C., 1978, Bull. Soc. Zool. France, v. 103 (4), 459-464

congeneric parasite species coexisting in same host species, evolutionary and ecological considerations

Ecology, Populations

Crossland, N. O., 1977, Advances Drug Research, v. 12, 53-88

Fasciola, *Schistosoma*, mammals, life cycles, relation between parasite numbers and effects of disease, use of incidence and prevalence data to estimate efficiency of control programmes, host and parasite population dynamics, mathematical models, integration of control methods

Ecology, Populations

Davey, J. T.; Gee, J. M.; and Moore, S. L., 1978, Marine Biol., v. 45 (4), 319-327

Mytilicola intestinalis in *Mytilus edulis*, population dynamics, parasite maturation and breeding, seasonal variation, mortality, environmental temperatures are believed to control parasite developmental cycle: Lynher River, Cornwall, England

Ecology, Populations

Davis, J. R.; and Huffman, D. G., 1978, Texas J. Sc., v. 30 (1), 43-53

helminths of *Gambusia affinis* from ecologically different habitats, variation with habitat, season, and host size: near San Marcos, Texas

Ecology, Populations

Desch, C.; Nutting, W. B.; and Lukoschus, F. S., 1972, Acarologia, v. 14 (1), 35-53

Demodex longissimus n. sp., *D. molossi* sp. n., life cycle, population dynamics, and pathology in bats

Ecology, Populations

Dronen, N. O., jr., 1978, Am. Midland Naturalist, v. 99 (2), 330-349

Haematoloechus coloradensis, population dynamics in various hosts, incidence and intensity of infection according to host age, seasonal periodicity, life cycle efficiency: ponds in Sierra Co., New Mexico

Ecology, Populations

Dutta, H. M.; and Dutt, A. K., 1978, Social Sc. and Med., v. 12 (2D), 69-84

malaria ecology, a global perspective, extensive review

Ecology, Populations

Easton, E. R.; and Goulding, R. L., 1974, J. Med. Entom., v. 11 (4), 413-418

Ixodes angustus, *I. pacificus*, and *I. soricis* from coastal and valley forest habitats, abundance, seasonal occurrence, host specificity, site of attachment on hosts, environmental influences on tick populations: western Oregon

Ecology, Populations

Esch, G. W.; Gibbons, J. W.; and Bourque, J. E., 1979, J. Parasitol., v. 65 (4), 633-638

enteric helminths in *Chrysemys s. scripta* from variety of habitats, species diversity and mean number of parasite species per host, relationship of various life history strategies of helminth parasites and predictability (or stability) of local environmental conditions: Savannah River Plant, near Aiken, South Carolina

Ecology, Populations

Eveleigh, E. S.; and Threlfall, W., 1976, Canad. J. Zool., v. 54 (10), 1694-1711

Mallophaga on Alcidae, prevalence and intensity, seasonal and annual data, burdens of adult hosts vs. chicks, distribution on host, louse population structure: Newfoundland

Ecology, Populations

Forattini, O. P.; et al., 1979, Rev. Saude Pub., S. Paulo, v. 13 (2), 123-146

Trypanosoma cruzi, epidemiological and ecological aspects in intensive agricultural and cattle breeding region, environmental changes seem to have favored Triatominae by increasing available ecotopes: municipio de Guaira, Brasil

Ecology, Populations

- Freeman, R. S.; and Thompson, B. H., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 871-878
Diphyllbothrium sp., incidence of plerocercoids in *Salvelinus namaycush*, % of fish eating plankton, forage fish present, implications for route of transmission: Algonquin Park lakes, Canada

Ecology, Populations

- Gibbs, H. C.; Crenshaw, W. J.; and Mowatt, M., 1977, J. Wildlife Dis., v. 13 (3), 327-332
Obeliscoides cuniculi in *Lepus americanus* (stomachs), seasonal prevalences of immature vs. mature nematodes in male vs. female hosts: area of East Corinth, Maine

Ecology, Populations

- Grundmann, A. W.; Warnock, R. G.; and Wassom, D. L., 1976, Am. Midland Naturalist, v. 95 (2), 347-360
 mechanisms of natural regulation of parasitic helminth populations: western Utah

Ecology, Populations

- Hair, J. D.; and Holmes, J. C., 1975, Acta Parasitol. Polon., v. 23 (12-25), 253-269
 usefulness of measures of diversity, niche width, and niche overlap in analysis of helminth communities in waterfowl, data suggest hypothesis that intestinal helminth fauna of *Aythya affinis* (particularly hymenolepidids) is composed of chance combination of ecological specialists whose microhabitats and populations are determined in part by inter-specific interactions

Ecology, Populations

- Hall, R. D.; Turner, E. C., jr.; and Gross, W. B., 1978, Poultry Science, v. 57 (2), 564-566
Ornithonyssus sylviarum, commercial laying hens, higher populations of mites on birds caged alone, importance as survey tool in pest management programs

Ecology, Populations

- Hanek, G.; and Fernando, C. H., 1978, Canad. J. Zool., v. 56 (6), 1247-1250
 gill parasites of *Lepomis gibbosus*, role of season, habitat, host age, and sex: Ontario, Canada

Ecology, Populations

- Hanek, G.; and Fernando, C. H., 1978, Canad. J. Zool., v. 56 (6), 1251-1253
 gill parasites of *Ambloplites rupestris*, role of season, habitat, host age, and sex: Bay of Quinte, and West Lake, Ontario

Ecology, Populations

- Healy, J. A., 1979, Parasitology, v. 78 (1), 7-17
Ixodes ricinus, samples from several Irish localities and from spring and autumn ticks collected in one area, detection by electrophoresis of very high allelic variation at locus coding for phosphoglucosmutase, allele frequency patterns, both spatial and temporal genetic differentiation exist, possible use of this polymorphism in population and taxonomic studies, possible adaptive significance of polymorphism in autecology of parasite

Ecology, Populations

- Healy, J. A., 1979, Genetica, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Ecology, Populations

- Henricson, J., 1978, J. Fish Biol., v. 13 (1), 51-71
Diphyllbothrium dendriticum and *D. ditremum* in *Salvelinus alpinus*, intensity of infection and length distribution of plerocercoid populations, seasonal variation, *Cyclops scutifer* proposed as main 1st intermediate host, potential final hosts: Lake Bjellojaure, Sweden

Ecology, Populations

- Hirsch, R. P., 1979, Internat. J. Parasitol., v. 9 (5), 395-399
Histomonas meleagridis-infected turkeys, dynamics of protozoan population density, plasma glutamic oxalacetic transaminase, plasma bilirubin concentration, relationship to clinical symptoms

Ecology, Populations

- Hoagland, K. E.; and Schad, G. A., 1978, Exper. Parasitol., v. 44 (1), 36-49
Necator americanus, *Ancylostoma duodenale*, life history data compiled and then analyzed in light of 2 ecological theories (r and K selection; body size and energy constraints on reproduction), implications that different reproductive strategies in 2 sympatric parasites have for epidemiological parasitology, value of population ecology in epidemiological investigations

Ecology, Populations

- Holmes, J. C., 1979, Host-Parasite Interfaces, 27-46
 biohelminth parasite populations and host community structure, theoretical review

Ecology, Populations

- Iwuala, M. O. E.; and Okpala, I., 1978, Bull. Animal Health and Prod. Africa, v. 26 (4), 351-359
 ectoparasites, free-ranging livestock, seasonal infestation rates, influence of climatic factors on parasite population patterns: Nsukka, Nigeria

Ecology, Populations

- Jablonska, J., 1970, Acta Parasitol. Polon., v. 18 (42-50), 521-550
Analgesoidea mites on turdid birds, occurrence during host spring and autumn migrations, incidence, intensity, distribution on wings, population structure (sex ratios, developmental stages), host specificity, simultaneous infections: Poland

Ecology, Populations

Jacobson, H. A.; Kirkpatrick, R. L.; and McGinnes, B. S., 1978, *Wildlife Monogr.* (60), 53 pp.

disease and physiologic characteristics of cottontail rabbits in 2 study areas in relation to population density, includes data on seasonal and sex differences: Virginia

Ecology, Populations

Jarroll, E. L., jr., 1979, *Parasitology*, v. 79 (2), 183-193

Bothriocephalus rarus, natural and experimental infections of copepod intermediate hosts, distribution and abundance in adult and larval *Notophthalmus viridescens*, parasite recruitment by *N. viridescens*, seasonal cycles in population structure, intensity of infection, maturation, and reproduction, effect of temperature on egg development

Ecology, Populations

Johnsen, B. O., 1978, *Astarte*, v. 11 (1), 7-9
Gyrodactylus salaris in *Salmo salar*, heavy mortality, unfavorable environmental conditions weaken fish and lead to parasite attack: river Lakselva, Misvaer, northern Norway

Ecology, Populations

Kaya, H. K.; and Moon, R. G., 1978, *J. Nematol.*, v. 10 (4), 333-341

Heterotylenchus autumnalis in *Musca autumnalis*, occurrence, within-pasture distribution of nematode and its host, frequency of nematodes within male and female hosts, effects of nematode on host (sterility, differential feeding behavior of infected and uninfected females of different age classes), seasonal population dynamics of nematode and host: northern California

Ecology, Populations

Kennedy, C. R., 1970, *Symposia Brit. Soc. Parasitol.*, v. 8, 145-159

helminths of British freshwater fish, population biology: the systems approach; distribution of parasites in the fish population; intermediate host-parasite systems; definitive host-parasite systems (life span and maturation cycle, population changes and their controlling factors, species exhibiting and not exhibiting seasonal cycles in incidence)

Ecology, Populations

Kennedy, C. R., 1978, *J. Fish Biol.*, v. 13 (4), 457-466

parasite fauna of *Salvelinus alpinus*, comparison of species composition, number, diversity, and equitability in lakes on Norwegian mainland and its offshore Arctic islands, results do not agree well with predictions of island biogeographical theory

Ecology, Populations

Keymer, A. E.; and Anderson, R. M., 1979, *Parasitology*, v. 79 (2), 195-207

Hymenolepis diminuta, dynamics of transmission by *Tribolium confusum*: age-dependent infectivity of eggs, influence of infective-stage density on rate of parasite establishment, density-dependent constraints, limitations on rate of acquisition of infection imposed by host feeding behavior, dynamics of ingestion of eggs by host, influence of spatial distribution of infective stages on infection

Ecology, Populations

Kiselev, A. N., 1977, *Zool. Zhurnal*, v. 56 (11), 1606-1615

Ixodes persulcatus population, middle scale spatial structure, statistical treatment of transect estimates, distribution in relation to vegetation and landscape: Middle Sikhote-Alin

Ecology, Populations

Kisielewska, K., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 121-147

intestinal helminths of *Clethrionomys glareolus*, structure and seasonal dynamics of helminth groupings in a host population: Bialowieza National Park, Poland

Ecology, Populations

Kisielewska, K., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 149-162

introduction of *Clethrionomys glareolus* with their parasites from Bialowieza National Park (BNP) onto island of Lake Beldany, process of development and spreading of new parasite fauna formed by introduced helminth species in island biocoenosis and its new vole population, comparison of qualitative and quantitative structure of helminth groupings with that in the original BNP vole population: Poland

Ecology, Populations

Kisielewska, K., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 163-176

structure and seasonal dynamics of intestinal helminth groupings in *Clethrionomys glareolus* populations of various forest biocoenoses in Poland

Ecology, Populations

Kisielewska, K., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 177-196

intestinal helminths of *Clethrionomys glareolus*, distribution pattern of helminth species within host population, seasonal variability, age and sex structure of host population: Poland

Ecology, Populations

Kisielewska, K., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 197-208

intestinal helminths of *Clethrionomys glareolus*, inter-specific relationships within one host individual (antagonistic, indifferent, beneficial), seasonal variations: Poland

Ecology, Populations

Korenberg, E. I., 1978, *Zhurnal Obsh. Biol.*, v. 39 (2), 227-235

Ixodes persulcatus, example of biocorological structure of species, hierarchical system, suggested units ranking from species down to population, geographic distribution to isolate all these categories

Ecology, Populations

Korenberg, E. I.; et al., 1978, *Biul. Moskov. Obshch. Ispyt. Prir.*, Otdel Biol., v. 83 (4), 5-14

Ixodes persulcatus, spatial structure and abundance of populations, long term studies: Kirovsk oblast; Udmurtsk ASSR

Ecology, Populations

- Krafsur, E. S.; and Hightower, B. G., 1979, J. Med. Entom., v. 16 (1), 33-42
Cochliomyia hominivorax, field tests of sterile males against natural populations, population dynamics, responses of previously challenged and unchallenged populations, comparison of 2 released strains: coastal areas of Mexico

Ecology, Populations

- Krasowska, I., 1974, Acta Parasitol. Polon., v. 22 (35-44), 423-440
 intestinal helminths, *Microtus arvalis*, fecal examination, Fulleborn flotation method evaluated under field conditions, useful in helminth population dynamics, not in diagnosis

Ecology, Populations

- Kritsky, D. C.; and Leiby, P. D., 1978, J. Parasitol., v. 64 (4), 625-634
Echinococcus multilocularis, factors influencing prevalence in *Vulpes vulpes* from 1965-1972: effects of collection interval (sampling year), climatic season, age and sex of host, geographic region, interactions between these variables, and definitive host prevalence and density: North Dakota

Ecology, Populations

- Lawler, G. H., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 821-831
Trienophorus nodulosus in *Perca flavescens*, life history, description of cyst, plerocercoid, and invasive stages, annual incidence and intensity of infection, relationship of host size to infection, dynamics of infection: Heming Lake, Manitoba

Ecology, Populations

- Lehnert, T.; and Shimanuki, H., 1979, Apidologie, v. 10 (1), 17-22
Nosema apis, package bees, population change and spore levels in older vs. newly emerged bees, much of disease eliminated with death of older bees, effect of feeding fumagillin at time packages are installed

Ecology, Populations

- Lopukhina, A. M.; et al., 1973, Parazitologiya, Leningrad, v. 7 (3), 270-274
 two methods for estimating effect of parasites on abundance of young fish in lakes, one for parasites persisting for a long period in the host, the other for parasites persisting only a short time

Ecology, Populations

- McGowan, M. J.; Camin, J. H.; and McNew, R. W., 1979, J. Parasitol., v. 65 (5), 692-699
Haemaphysalis leporispalustris infestations of juvenile and adult *Sylvilagus floridanus* from January 1974-December 1975 in Douglas County, Kansas, relationship to skin-sensitizing antibody production, models used to interpret data show promise for predicting tick population fluctuations and incidence of vector borne disease outbreaks, implications of existence of resistance to tick attachment

Ecology, Populations

- Mapes, C. J.; and Coop, R. L., 1971, J. Comp. Path., v. 81 (4), 479-492
Haemonchus contortus chemically terminated or concurrent with *Nematodirus battus* in lambs lowered reproductive capacity and inhibited development of *N. battus*, results consistent with density-dependent physico-pharmacological mechanism of population control involving changes in host alimentary physiology (abomasal pH and Na⁺ concentration)

Ecology, Populations

- Masaba, S.; and Herbert, I. V., 1978, J. Comp. Path., v. 88 (4), 575-583
Hyostromylus rubidus, growing pigs with no prior experience of infection, effects of size of single dose on establishment, rate of worm loss, rate of relative loss of male and female worms, worm growth, and worm fecundity

Ecology, Populations

- Mas-Coma, S.; and Montoliu, I., 1978, Rev. Iber. Parasitol., v. 38 (1-2), 95-109
Brachylaemus sp. aff. *recurvus*, *Dollicus frontalis*, *Corrigia vitta*, bioecology, distribution in different insular habitats, coexistence in phylogenetically distinct free living small mammals: Formentera, Islas Pitiusas

Ecology, Populations

- May, R. M.; and Anderson, R. M., 1978, J. Animal Ecol., v. 47 (1), 249-267
 dynamics of model host-parasite associations, factors that tend to have a destabilizing influence: parasite induced reduction in host reproduction; effects of parasites reproducing directly inside their host; effects of time delays in parasite reproduction and transmission

Ecology, Populations

- May, R. M.; and Anderson, R. M., 1979, Nature, London (5722), v. 280, 455-461
 parasitic infections as regulators of host populations, mathematical models

Ecology, Populations

- Mills, C. A.; Anderson, R. M.; and Whitfield, P. J., 1979, J. Animal Ecol., v. 48 (2), 383-399
Transversotrema patialense on *Brachydanio rerio* (exper.), host size (age) and parasite survival, (parasite) age- and density-dependent survival and reproduction, reinfection and transplantation experiments failed to provide evidence of host immunological responses

Ecology, Populations

- Miln, A. J., 1978, N. Zealand Entom., v. 6 (4), 392-399
Mattesia sp. and *Nosema takapauensis* in *Costelytra zealandica*, incidence among larvae, seasonal distribution, growth and development of diseased larvae, mortality, transmission by soil: New Zealand

Ecology, Populations

- Mohandas, A.; and Nadakal, A. M., 1978, Ztschr. Parasitenk., v. 55 (2), 139-151
Echinostoma malayanum, development in rats, heavy population density effects (lengthened prepatent period, undersized worms, decreased proteins, lipids, calcium, and ash but not glycogen); pathological changes in rat intestine; in vitro metacercarial excystment

Ecology, Populations

- Mollhagan, T., 1978, Southwest. Nat., v. 23 (3), 401-407
 helminths of *Sigmodon hispidus* from 2 mesic and 3 upland habitats in western Texas, incidence and prevalence, influence of host habitat on parasite fauna composition, comparison of 5 Texas sites with each other and with 3 sites in Florida

Ecology, Populations

- Muliarskaia, L. V., 1978, Entom. Obozr., v. 57 (1), 207-212
 Trombiculidae, land development, species and quantity of mites; interrelationships of vector species and rodent hosts, epidemiological importance, brief review: Azerbaidzhan

Ecology, Populations

- Murua, R. E., 1978, Acta Parasitol. Polon., v. 25 (11-20), 149-161
 ecology of parasites of *Apodemus sylvaticus* and *Clethrionomys glareolus*: analysis of parasite populations and their seasonal variation in two contrasting habitats: Bristol area, England

Ecology, Populations

- Neraasen, T. G.; and Holmes, J. C., 1975, Acta Parasitol. Polon., v. 23 (12-25), 277-289
 analysis of circulation of cestodes among 3 species of geese (young and adult) nesting in close association, 4 groups of cestodes delineated representing different pathways and patterns of exchange: Anderson River Delta, Northwest Territories, Canada

Ecology, Populations

- Norval, R. A. I., 1977, Rhodesian Vet. J., v. 8 (4), 60-66
 ticks mainly of humans and domestic animals, population dynamics in absence of cattle dipping operations, incidence of tick-borne disease, regional distribution related to climate, land utilization, and dipping: Kandeia Tribal Trust Land, northeast Rhodesia

Ecology, Populations

- Norval, R. A. I., 1979, J. Parasitol., v. 65 (2), 285-287
 ixodid ticks, 12 southern African species in which adults commonly parasitize cattle, host availability for immature stages as limiting factor in population growth, importance of host associations of immature stages in determining 'pest status' of individual species

Ecology, Populations

- Novozhilova, E. N., 1971, Parazitologiya, Leningrad, v. 5 (4), 377-381
 seasonal occurrence of ectoparasites of *Clethrionomys glareolus* and inhabitants of its nest, interrelationships between different groups of arthropods on the host and/or in its nest: Komi ASSR

Ecology, Populations

- Okhotina, M. V.; and Nadtochy, E. V., 1970, Acta Parasitol. Polon., v. 18 (1-12), 81-84
Mammanidula asperocutis infection exerts limiting effect on population of *Sorex* spp. because infected female hosts do not produce milk and their offspring therefore perish

Ecology, Populations

- Olszewska, G. M., 1975, Acta Parasitol. Polon., v. 23 (26-40), 329-338
Diorchis, 3 spp. in *Fulica atra*, distribution within host intestine in single and mixed infections of differing intensity

Ecology, Populations

- Patrick, C. D.; and Hair, J. A., [1979], J. Parasitol., v. 64 (6), 1100-1106
Amblyomma americanum, effect of habitat utilization by white-tailed deer on seasonal abundance of tick populations in 3 different habitats

Ecology, Populations

- Phillips, W. J.; and Cannon, L. R. G., 1978, J. Fish Dis., v. 1 (2), 137-149
Sacculina granifera infections of *Portunus pelagicus*, prevalence, host age and sex, seasonal distribution, influence of parasite upon host: morphological and behavioural modifications, inhibited moulting, male sterility: Moreton Bay, Queensland

Ecology, Populations

- Piesman, J.; and Spielman, A., 1979, Ann. Entom. Soc. Am., v. 72 (6), 829-832
 immature *Ixodes dammini*, host association and seasonal abundance, role as vectors of *Babesia microti*: southeastern Massachusetts

Ecology, Populations

- Pointier, J. P.; and Theron, A., 1979, Ann. Parasitol., v. 54 (1), 43-56
Schistosoma mansoni, distribution and population dynamics of *Biomphalaria glabrata*, prevalence of infection, rhythm of presence and density of cercariae: freshwater mangrove, Guadeloupe, French Antilles

Ecology, Populations

- Prokopic, J., 1975, Acta Parasitol. Polon., v. 23 (26-40), 339-345
Hymenolepis erinacei growth and population dynamics in *Erinaceus europaeus* (exper.)

Ecology, Populations

- Quillevere, D.; et al., 1977, Cahiers O.R.S.T.O.M., s. Entom. Med. et Parasitol., v. 15 (4), 301-329
Onchocerca volvulus in *Simulium* spp. females, comparison of host bio-ecology and vector potential, parasitism as basis for calculating theoretical composition of a biting population of flies: Cote d'Ivoire, Afrique de l'Ouest

Ecology, Populations

- Randolph, S. E., 1979, Parasitology, v. 79 (1), 141-156
Ixodes trianguliceps, manifestations of acquired resistance in successive infestations of unnatural host (laboratory mice) but not of natural host (*Apodemus sylvaticus*), relevance to concept of host-parasite co-evolution and to tick population regulation

Ecology, Populations

- Rau, M. E.; and Gordon, D. M., 1978, J. Fish Dis., v. 1 (3), 259-263
Apatemon gracilis pellucidus in *Culaea inconstans*, frequency distribution and localization in host populations of homogeneous age and size structure: swamp on Ile Perrot, Province of Quebec, Canada

Ecology, Populations

- Rohde, K., 1978, Marine Biol., v. 47 (2), 125-134
 marine Monogenea and Digenea, latitudinal differences in host specificity, digenetic host specificity increases from cold to warm seas but no such gradient exists in Monogenea, differences explained in terms of reproductive strategies

Ecology, Populations

- Rykovskii, A. S., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 145-147
 hunting as factor in control of wildlife parasites, e. g.: elimination of diseased animals as form of natural selection; brief review

Ecology, Populations

- Samurov, M. A., 1977, Zool. Zhurnal, v. 56 (11), 1649-1653
Xenopsylla conformis, population density increases and decreases, yearly cycles and distribution, statistical prediction method, possible factors: Volga-Ural sands

Ecology, Populations

- Sankurathri, C. S.; and Holmes, J. C., 1976, Canad. J. Zool., v. 54 (10), 1742-1753
 parasites and commensals (*Oligochaeta* and larval Digenea) of *Physa gyrina* in control area vs. area affected by thermal effluents, prevalence, seasonal changes, interactions (including ingestion of cercariae by oligochaete), ecological model: Lake Wabamun, Alberta

Ecology, Populations

- Scott, J. S., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 879-891
 trematode parasites of *Argentina silus*, incidence and intensity in different host length groups, as indicators of change in host feeding habits, not suitable as biological tags to distinguish host populations; *Lecithophyllum botryophorum*, parasite length/frequency distribution in different host length groups, seasonal variation, parasite life span and growth: western Atlantic

Ecology, Populations

- Seed, J. R.; et al., 1978, Am. Midland Naturalist, v. 100 (1), 126-134
Trypanosoma brucei gambiense-infected wild and laboratory *Microtus montanus* males, organ weights, parasite stress as cause of enlarged spleens and smaller gonads, splenomegaly can be used as survey marker to determine extent of parasitism in field populations, reduced reproductive potential suggests that parasitism plays role in limiting host population density: Jackson Hole, Wyoming

Ecology, Populations

- Shepherd, R. C. H.; and Edmonds, J. W., 1979, J. Hyg., Cambridge, v. 83 (2), 285-294
Spilopsyllus cuniculi, distribution and spread on different land forms at regular intervals following release, seasonal occurrence on male vs. female rabbits, development of stable host-parasite relationship over period of several years: Central District of Victoria

Ecology, Populations

- Sonenshine, D. E.; et al., 1976, J. Med. Entom., v. 12 (6), 651-656
Dermacentor andersoni, population dynamics and host utilization of immature stages, abundance measured by release and recapture of radioisotope-tagged ticks: western Montana

Ecology, Populations

- Sosnina, E. F.; and Davydov, G. S., 1975, Parazitologiya, Leningrad, v. 9 (2), 183-189
Neohaematopinus palaeartus infestation of *Marmota caudata* in relation to geographic regions and vertical zones, season, host activity period (hibernation, reproduction, etc.), host age and sex, age and sex structure of louse populations: Tadzhikistan

Ecology, Populations

- de Souza, J. R.; and Vilela, E. F., 1977, Rev. Ceres (136), v. 24, 636-638
 schistosomiasis not likely to become serious problem as ecological conditions do not favor development of large populations of *Biomphalaria glabrata* in artificial impoundments, except during first months after water is dammed: Vicosa, Minas Gerais, Brazil

Ecology, Populations

- Stone, J. E.; and Pence, D. B., 1978, J. Parasitol., v. 64 (2), 295-302
 helminth parasitism of *Felis rufus*, nature, prevalence, intensity, ecological relationships of parasitism including concentration of dominance, similarity of helminth faunas between different geographic areas, and nature of distributions of aggregations of helminth species in this host: Rolling Plains of West Texas

Ecology, Populations

- Stromberg, P. C.; Toussant, M. J.; and Dubey, J. P., 1978, Parasitology, v. 77 (1), 13-18
Paragonimus kellicotti, population biology of metacercariae in crayfish (*Orconectes rusticus*, *Orconectes* sp.): prevalence and intensity in relation to host size (age) and sex, frequency distribution (negative binomial) and abundance in two different localities (in municipal park vs. in undisturbed woodlot), seasonal variation, no apparent detrimental effect of infection on host, seasonal timing of life cycle events is postulated: tributary of Alum Creek near Westerville, Franklin County, Ohio

Ecology, Populations

- Sutherst, R. W.; et al., 1979, J. Applied Ecol., v. 16 (2), 359-382
Boophilus microplus, cattle, analysis of 3 control methods used separately and in combination (acaricides, pasture spelling, tick-resistant cattle), computer model of tick population: Australia

Ecology, Populations

Sutherst, R. W.; et al., 1979, J. Applied Ecol., v. 16 (2), 397-403
Boophilus microplus, density-dependent mortality of ticks on cattle in relation to season, host sex, breed, and level of tick resistance

Ecology, Populations

Sutherst, R. W.; et al., 1979, Austral. J. Agric. Research, v. 30 (2), 353-368
Boophilus microplus, untreated cattle selected for different levels of tick resistance, tick population studies over 6 year period

Ecology, Populations

Sweeting, R. A., 1976, J. Fish Biol., v. 9 (6), 515-522
Ligula intestinalis, effect on *Rutilus rutilus* population in gravel pit, fall in number of parasitized roach due to predation by other fish, parasitized roach failed to become sexually mature but their actual growth rate was not markedly reduced, plerocercoids grew more rapidly during summer, roach less than 9 months of age should not be introduced into confined waters: southern England

Ecology, Populations

Urdaneta-Morales, S.; and Rueda, I. G., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 241-250
Trypanosoma cruzi, Venezuelan strain vs. Brazilian strain, factors influencing adaptation, development, and multiplication in local race of *Rhodnius prolixus* vectors (laboratory strain originally from state of Guarico, Venezuela)

Ecology, Populations

Uspenskii, I. V.; Kachanko, N. I.; and Repkina, L. V., 1978, Zool. Zhurnal, v. 57 (3), 391-397
Ixodes persulcatus, *Haemaphysalis concinna*, *Dermacentor silvarum*, analysis of regions of high population density near northern and high altitude limits, seasonal variations in abundance and sex ratios: Amur oblast

Ecology, Populations

Volkov, V. I.; and Ershov, N. E., 1979, Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool. (4), 69-73
Ixodes persulcatus, computer analysis of numbers in relation to various ecological factors, including numbers of hosts and climatic conditions, 1962-1976, basis for predicting abundance: Priamur'ia

Ecology, Populations

Wilson, R. A.; and Taylor, S. L., 1978, Parasitology, v. 76 (1), 91-98
Fasciola hepatica in *Lymnaea truncatula*, curvilinear relationship between miracidial density and snail density as manifested by successful establishment of an infection in snail host, level of parasitization not related exponentially to temperature, depth of free water overlying mud surface was absolute requirement for miracidia to successfully infect snails

Ecology, Populations

Zolotova, S. I.; Maslennikova, Z. P.; and Afanas'eva, O. V., 1978, Zool. Zhurnal, v. 57 (11), 1663-1667
Xenopsylla, numbers of generations in northern desert subzone, overlapping of generations, overwintering: Bakanassk GMS

Economic importance of parasitism

Akerejola, O. O.; Schillhorn van Veen, T. W.; and Njoku, C. O., 1979, Bull. Animal Health and Prod. Africa, v. 27 (1), 65-70
 parasitic and other diseases, sheep and goats, economic losses reviewed: Nigeria

Economic importance of parasitism

Alonge, D. O.; and Fasanmi, E. F., 1979, Trop. Animal Health and Prod., v. 11 (1), 57-62
 diseases and parasites of cattle resulting in carcass condemnations, abattoir survey, economic importance and public health: northern Nigeria

Economic importance of parasitism

Artem'ev, G. M., 1978, Vestnik Sel'skokhoz. Nauki Kazakhstana (10), 91-93
 helminthiases, sheep, economic losses, phenothiazine salt and cupric sulfate mix: Pavlodarsk oblast

Economic importance of parasitism

Avakian, A. A.; et al., 1978, Veterinariia, Moskva (11), 76-77
 coccidiosis, chickens (broilers), prophylactic control by various preparations, pharmacococci recommended, treatment economics: Krymsk oblast

Economic importance of parasitism

Bigalke, R. D., 1977, J. South African Biol. Soc., v. 17, 1976, 7-17
 future control of ticks and tick-borne diseases of cattle, losses from ticks, tick-borne diseases, review: South Africa

Economic importance of parasitism

Bowen, F. L., 1979, Austral. J. Exper. Agric. and Animal Husb. (98), v. 19, 269-275
 nematodes, weaner cattle, treatment/management procedure involving alternate grazing with sheep and monthly treatment with cambendazole, liveweight changes, financial returns: Northern Tablelands of New South Wales

Economic importance of parasitism

Carrasco Marin, J., 1977, SPM Salud Pub. Mexico, v. 19 (2), 255-261
 porcine cysticercosis, prevalence survey, economic importance, information from 8 health centers of the State of Sonora, Mexico

Economic importance of parasitism

Chambers, R.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (8), 156-172
 conference on seasonal dimensions to rural poverty, including tropical parasitic diseases in tropical areas of Africa and Asia

Economic importance of parasitism

Clarkson, M. J., 1978, Vet. Rec., v. 102 (12), 259-261
 hydatidosis in man and domestic animals, public health importance, economic losses, suggested eradication schemes: Wales

Economic importance of parasitism

Cohen, J. E., 1974, Social Sc. and Med., v. 8 (7), 383-398
Schistosoma mansoni, *S. haematobium*, humans, potential economic benefits of eliminating mortality associated with infection, estimation procedures and theories: Zanzibar

- Economic importance of parasitism
Derylo, A.; and Haliniarz, A., 1977, *Med. Wet.*, v. 33 (10), 624-626
Hypoderma bovis, cattle, neguvon, economic losses before and after treatment: Lublin, Poland
- Economic importance of parasitism
Derylo, A.; and Kinka, R., 1977, *Med. Wet.*, v. 33 (9), 568-569
Echinococcus granulosus, pigs, economic importance: Lublin, Poland
- Economic importance of parasitism
DeVaney, J. A., 1978, *Poultry Science*, v. 57 (5), 1217-1220
ectoparasites of poultry, results of national questionnaire survey to determine presence, economic importance, drug resistance, and future research needs: United States
- Economic importance of parasitism
DeVaney, J. A., 1979, *Poultry Science*, v. 58 (1), 191-194
Ornithonyssus sylvarium, hens, effects of uncontrolled mite populations on body weight, egg production, and feed consumption
- Economic importance of parasitism
Eslami, A.; et al., 1976, *J. Vet. Fac. Univ. Tehran*, v. 32 (1-4), 21-27
Fasciola hepatica, Dicrocoelium dendriticum, Ornithobilharzia turkestanicum, Linguatula serrata, incidence in liver of ruminants; important cause of economic losses: Tehran abattoir
- Economic importance of parasitism
Frame, A. D.; et al., 1979, *J. Agric. Univ. Puerto Rico*, v. 63 (1), 27-30
Fasciola hepatica, cattle (liver), prevalence in 1973-1976 compared to 1948-1949, economic impact: slaughterhouses in Puerto Rico
- Economic importance of parasitism
Gateff, C.; et al., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (3), 309-324
S[chistosoma] haematobium, influence of infection on economic capacity of young adult population of workers on sugar cane estate, effect of niridazole treatment: Cameroons
- Economic importance of parasitism
Goodger, W. J.; Carpenter, T.; and Riemann, H., 1979, *J. Am. Vet. Med. Ass.*, v. 174 (12), 1333-1336
anaplasmosis in beef cattle, estimation of economic loss in 1976: California
- Economic importance of parasitism
Gottschalk, C., 1973, *Ang. Parasitol.*, v. 14 (1), 44-54
endo-parasites of Lepus europaeus, seasonal dynamics, distribution according to locality, sex and age of host, economic importance of parasitism for regional hunting: Ostthuringen, DDR
- Economic importance of parasitism
Grabda, J., 1977, *Acta Ichthyol. et Piscat.*, v. 7 (2), 15-34
degree of parasite infestation of Theragra chalcogramma, commercial value: imported from USSR
- Economic importance of parasitism
Grindle, R. J., 1978, *Trop. Animal Health and Prod.*, v. 10 (3), 127-140
Cysticercus bovis, cattle, incidence, economic losses: Botswana; Kenya
- Economic importance of parasitism
Grove, D. I.; Valeza, F. S.; and Cabrera, B. D., 1978, *Bull. World Health Organ.*, v. 56 (6), 975-984
Wuchereria bancrofti, dynamics of filariasis in village inhabitants, clinical, parasitological, immunological, and social aspects: village of Paraiso, Province of Catanduanes, Philippines
- Economic importance of parasitism
Hale, O. M.; and Stewart, T. B., 1979, *J. Animal Sc.*, v. 49 (4), 1000-1005
Trichuris suis, pigs (exper.), effects of infection on weight gains, digestion and absorption of nutrients, and nitrogen balance
- Economic importance of parasitism
Harvey, T. L.; and Brethour, J. R., 1979, *J. Econom. Entom.*, v. 72 (4), 516-518
Haematobia irritans, coumaphos-treated and untreated steers, weight gains, economic importance: Hays, Kansas
- Economic importance of parasitism
Hawkins, C. D.; and Morris, R. S., 1978, *Vet. Parasitol.*, v. 4 (4), 341-351
Fasciola hepatica, sheep (exper.), degree of productivity depression assessed by body-weight change, midside patch wool growth, fleece weights, and feed digestibility
- Economic importance of parasitism
van den Heever, L. W.; Nevill, E.; and Horton, B. G. W., 1973, *J. South African Vet. Ass.*, v. 44 (3), 333-334
Parafilaria bovicola, frequency and distribution of cutaneous lesions on cattle at slaughter, economic losses, importance of differentiating between parafilaria and bruising
- Economic importance of parasitism
Herlich, H., 1978, *World Animal Rev.* (26), 22-26
helminths, ruminants, economic importance
- Economic importance of parasitism
Huhn, J., 1977, 3. Externe Veterinartagung, Ber. u. Arbeitsergebn. (40), 217-227
trypanosomiasis, cattle, possible mechanisms of tolerance, use of resistant breeds as control measure, economic importance: West Africa
- Economic importance of parasitism
Iakubovskii, M. V., 1979, *Veterinariia, Moskva* (2), 41-42
ascariasis, trichocephaliasis, oesophagostomiasis, swine, comparative effectiveness and economic value of various drugs: Minsk oblast
- Economic importance of parasitism
Iakubovskii, M. V.; and Zharikov, I. S., 1974, *Vet. Nauka--Proizvod.*, Trudy, Minsk, v. 12, 113-119
paramphistomiasis, cattle, economic effectiveness of treatment and control measures, mathematical formula for evaluation: Brest oblast, Belorussian SSR
- Economic importance of parasitism
Iashchuk, V. D., 1977, *Veterinariia, Moskva* (6), 70-73
dactylogyrosis, economic losses to fish farms measured

- Economic importance of parasitism
Iashchuk, V. D., 1977, Veterinariia, Moskva (9), 71-73
Costia necatrix, rainbow trout, severe outbreak, economic benefits of treatment with malachite green: Vinnitsk fish farm
- Economic importance of parasitism
Iashchuk, V. D.; and Vasil'kov, G. V., 1977, Veterinariia, Moskva (7), 62-65
[Bothriocephalus], carp, phenasal-feed mix as control measure in fish farms, economic effectiveness analyzed mathematically
- Economic importance of parasitism
Jobin, W. R., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 142-154
schistosomiasis control, 6 pilot projects, review with emphasis on cost of mollusciciding programs
- Economic importance of parasitism
Jobin, W. R.; and Laracuente, A., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 916-917
Schistosoma mansoni, evaluation of Marisa cornuarietis for biological control of schistosome transmission in flowing water habitats with population of infected Biomphalaria glabrata, costs: Puerto Rico
- Economic importance of parasitism
Johnstone, I. L.; et al., 1979, Austral. J. Exper. Agric. and Animal Husb. (98), v. 19, 303-311
parasites, sheep, effect of four control schemes in two environments on wool production and liveweight gains
- Economic importance of parasitism
Karasev, N. F.; and Litvinov, V. F., 1978, Veterinariia, Moskva (8), 70-71
[Parafasciolopsis], elk, prevalence, pathology, decreased meat production, economic losses: Berezinsk reserve
- Economic importance of parasitism
Khan, M. H., 1979, Indian Vet. J., v. 56 (9), 739-743
Lipeurus caponis, Menacanthus stramineus, White Leghorn fowl, organophosphorus insecticides, costs evaluated
- Economic importance of parasitism
Kolacz, J. W., 1977, Acta Parasitol. Polon.; v. 25 (1-10), 91-95
economic aspects of control of parasitic diseases of domestic animals, formulae for calculating profitability
- Economic importance of parasitism
Koltai, L., 1979, Magy. Allat. Lapja, v. 34 (2), 87-91
Hypoderma, cattle, trichlorphone 'pour on', economic losses and cost of control: Hungary
- Economic importance of parasitism
Mechow, A., 1977, Prakt. Tierarzt, v. 58 (11), 818, 822-825
increased milk yield in dairy cows treated with thiabendazole at the beginning of lactation
- Economic importance of parasitism
Metelitsa, V. K.; et al., 1977, Veterinariia, Moskva (9), 68-70
[Hypoderma], cattle, dosing apparatus for applying hypodermin-chlorophos in measured doses to several animals, economic benefits of treatment
- Economic importance of parasitism
Negron-Aponte, H.; and Jobin, W. R., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 515-525
schistosomiasis, update on control program initiated in 1953 in Puerto Rico
- Economic importance of parasitism
Nelson, W. A.; et al., 1977, J. Med. Entom., v. 13 (4-5), 389-428
host-ectoparasite interactions, review: hematologic and clinical manifestations of infestation, arthropod antigens and host antibodies raised against them, manifestations of antigen-antibody interaction, histopathologic reactions of skin to arthropod feeding and acquired resistance to arthropods, genetics of host resistance, economic effects of parasitism, speculation on nature of innate and acquired resistance
- Economic importance of parasitism
Parre, J.; Kaarma, A.; and Parts, V., 1977, Eesti Põllumaj. Akad. Teadusl. Toode Kogum. (104), 128-136
intestinal helminths, swine farm, control methods, dehelminthization with hygrovetin; economic losses, economic benefits of treatment
- Economic importance of parasitism
Phillips, J.; and Duncan, J. S., 1978, Ann. Applied Biol., v. 88 (2), 346-347
Ixodes ricinus, economic effect of ticks and louping-ill on sheep and grouse, Lagopus lagopus scoticus, reduction in reproduction of grouse: Moray; Central Perthshire
- Economic importance of parasitism
Pluimers, E. J., 1979, Vet. Quart., v. 1 (2), 82-89
gastrointestinal nematodes, Dutch dairy cattle, milk production increase following treatment with thiabendazole
- Economic importance of parasitism
Popov, M. A., 1978, Veterinariia, Moskva (8), 65-68
[Strongylata], sheep, goats, specialized farms, economic benefits and seasonal timing of anthelmintic treatment
- Economic importance of parasitism
Pouplard, L., 1978, Vet. Rec., v. 103 (19), 434 [Letter]
dairy cows, anthelmintic treatment with thiabendazole, increased milk production: Belgium
- Economic importance of parasitism
Rastegaev, Iu. M., 1978, Vestnik Sel'skokhoz. Nauki Kazakhstana (3), 73-76
myiasis, helminths, horses, chlorophos, amidophos, economic effectiveness of treatment: northern Kazakhstan

Economic importance of parasitism

Reid, J. F. S.; and Armour, J., 1978, Vet. Rec., v. 102 (1), 4-7
helminths, sheep, economic effects (death, poor growth rate, poor food utilisation, poor fleece quality), outline of more efficient prophylactic programmes than those currently adopted by sheep farmers: United Kingdom

Economic importance of parasitism

Ribbeck, R.; and Witzel, G., 1979, Monatsh. Vet.-Med., v. 34 (2), 56-61
Fasciola spp., cattle, sheep, economic loss

Economic importance of parasitism

Riha, J.; Minar, J.; and Hradil, M., 1976, Veterinarství, v. 26 (10), 456-458
Hypoderma bovis, H. lineatum, cattle, treatment with hypocid, economic importance of control, effect on heifer weight gain

Economic importance of parasitism

Riha, J.; Minar, J.; and Matouskova, O., 1977, Vet. Med., Praha, v. 50, v. 22 (4), 193-200
Hypoderma bovis, heifers, hypocid preparation, highly effective and profitable, as measured by weight gains

Economic importance of parasitism

Ruppanner, R.; et al., 1978, Am. J. Vet. Research, v. 39 (5), 867-870
Toxoplasma gondii, goats, prevalence as surveyed serologically, mode of transmission to man, economic and public health aspects: California

Economic importance of parasitism

Schroeder, J.; and Swan, G. E., 1979, Rhodesian Vet. J., v. 10 (1), 11-16
anthelmintic treatment of cattle, epizootiological and economic considerations, review

Economic importance of parasitism

Shigin, A. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 227-231
Diplostomum paraspithaceum, D. spathaceum, lowering rate of growth of [Ctenopharyngodon idella], possible factor in fish culture

Economic importance of parasitism

Stephen, D.; and Joseph, M. M., 1977, Science and Culture, v. 43 (9), 387-388
Bucephalus sp., parasitic castration of Crassostrea madrasensis (gonads): South Kanara district, Karnataka

Economic importance of parasitism

Stockdale, P. H. G.; and Harries, W. N., 1979, Canad. Vet. J., v. 20 (9), 223-226
gastrointestinal nematodes, cattle, anthelmintic treatment upon entry into feedlot, no improvement in rate of weight gain or feed conversion efficiency: Alberta

Economic importance of parasitism

Stork, M. G., 1979, Vet. Rec., v. 105 (15), 341-343
fly infestation of meat and milk producing animals, importance in transmission of disease and in production losses from 'fly worry', review: Europe

Economic importance of parasitism

Tager-Kagan, P., 1978, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 31 (4), 437-442
Fasciola gigantica, cattle, sheep, and goats, epidemiology, economic importance, prophylaxis: Niger

Economic importance of parasitism

Tenquist, J. D., 1977, N. Zealand Entom., v. 6 (3), 285-289
ectoparasites of veterinary importance, 13 species discussed, review: New Zealand

Economic importance of parasitism

Thompson, K. C.; et al., 1978, Trop. Animal Health and Prod., v. 10 (3), 141-144
Anaplasma marginale, Babesia bigemina, B. argentina (bovis), immunization and chemoprophylaxis of Bos taurus calves and subsequent challenge with Boophilus microplus, economic gain estimated: Colombia

Economic importance of parasitism

Todd, A. C.; et al., 1978, Mod. Vet. Pract., v. 59 (7), 507-510
subclinical parasitism in dairy and beef cattle, economic importance, resistance and immunity, treatment, review

Economic importance of parasitism

Todorovic, R. A.; Gonzalez, E. F.; and Garcia, O., 1979, Tropenmed. u. Parasitol., v. 30 (1), 43-52
anaplasmosis, babesiosis, cattle, immunization evaluated under field conditions, study indicates significant reduction in deaths and production losses and economic benefits for livestock producers when animals are vaccinated: Cauca River Valley, Colombia

Economic importance of parasitism

Tongson, M. S.; et al., 1978, Philippine J. Vet. Med., v. 17 (1-2), 85-100
intestinal nematodes, beef cattle, frequency of deworming determined that will effect the most economical weight gains: Philippines

Economic importance of parasitism

Weber, L. J., 1978, Canad. Vet. J., v. 19 (1), 21 [Letter]
Eimeria meleagridis, E. adenoides, turkeys, outbreak causing great economic loss despite antioccidial drug in medicated feed; need for recognizing development of resistant strains of coccidia: Beamsville, Ontario

Economic importance of parasitism

Wellington, A. C., 1978, J. South African Vet. Ass., v. 49 (2), 131-132
Parafilaria bovicola, cattle, efficacy of nitroxylin administered at two dosage levels, reduced lesion areas and carcass lesions, financial implications

Economic importance of parasitism

Zukowski, K., 1976, Przegl. Epidemiol., v. 30 (2), 225-233
human scabies, statistics of epidemiologic survey of incidence 1966-1970 in Poland

Ectoparasites

DeVaney, J. A., 1978, Poultry Science, v. 57 (5), 1217-1220
ectoparasites of poultry, results of national questionnaire survey to determine presence, economic importance, drug resistance, and future research needs: United States

Ectoparasites

Furman, D. P., 1978, Fundam. Applied Entom. (Pfadt), 3. ed., 677-700
poultry insects and related pests, textbook chapter

Ectoparasites

- Heath, A. C. G., 1978, *N. Zealand Entom.*, v. 6 (4), 364-365
 ectoparasites, factors which influence seasonal fluctuations (climate, host physiology, and parasite physiology)

Ectoparasites

- Meen, O., 1977, *Norsk Vet.-Tidsskr.*, v. 89 (5), 317
 sores on skin of sheep, possibly caused by ectoparasites transferred from large invasion of mice in barn in extremely cold weather

Ectoparasites

- Nelson, W. A.; et al., 1975, *J. Med. Entom.*, v. 12 (2), 143-166
 ectoparasitic arthropods, physiologic relationships with hosts (life histories, distribution on host, feeding mechanisms, effect of nutrition and endocrine state of host, parasite toxins), broad review

Ectoparasites

- Nelson, W. A.; et al., 1977, *J. Med. Entom.*, v. 13 (4-5), 389-428
 host-ectoparasite interactions, review: hematologic and clinical manifestations of infestation, arthropod antigens and host antibodies raised against them, manifestations of antigen-antibody interaction, histopathologic reactions of skin to arthropod feeding and acquired resistance to arthropods, genetics of host resistance, economic effects of parasitism, speculation on nature of innate and acquired resistance

Ectoparasites

- Pfadt, R. E., 1978, *Fundam. Applied Entom.* (Pfadt), 3. ed., 637-676
 livestock insects and related pests, textbook chapter

Ectoparasites

- Rak, H., 1976, *J. Vet. Fac. Univ. Tehran*, v. 32 (1-4), 77-96
 ectoparasites, veterinary practice, berco-tox, asuntol 50, alon, bolfo, alugan, opigal, gamatox, tetmosol, neguvon: Iran

Ectoparasites

- Tarry, D. W., 1978, *Vet. Ann.* (18), 111-116
 ectoparasites, development of control methods, review

Ectoparasites

- Tenquist, J. D., 1977, *N. Zealand Entom.*, v. 6 (3), 285-289
 ectoparasites of veterinary importance, 13 species discussed, review: New Zealand

Education. See Parasitology, Education.

Egg-count. See Technique, Egg-count.

Eggs. [See also Hatching; Reproduction]

Eggs

- Akahane, H.; and Oshima, T., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (4), 231-234
Fasciola sp., existence of strain with large eggs and strain with small eggs, heritability of trait: Japan

Eggs

- Andersen, K.; and Halvorsen, O., 1978, *Parasitology*, v. 76 (2), 229-240
Diphyllbothrium spp., egg size and form (length, width, and length:width ratio) as taxonomic criteria, may contribute to species delimitation at population level but for identification at individual level 80% is best possible accuracy

Eggs

- Asch, H. L.; and Dresden, M. H., 1979, *J. Parasitol.*, v. 65 (4), 543-549
Schistosoma mansoni, egg extracts, acidic thiol proteinase activity

Eggs

- Bergstrom, R. C.; and Werner, B. A., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (2), 234-236
Trichostrongylus colubriformis, *Nematodirus* spathiger, recovery and development of abnormal eggs from sheep feces

Eggs

- Byram, J. E.; and Senft, A. W., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 539-547
Schistosoma mansoni, *S. japonicum*, eggshell, amino acid analysis and incorporation of labelled amino acids

Eggs

- Dancescu, P.; Rafael-Stefanescu, G.; and Titeica, M., 1979, *Ann. Parasitol.*, v. 54 (2), 261-262
Fasciola hepatica, human, 3 months after anthelmintic treatment, elimination in bile of large number of deformed and shriveled eggs: Roumania

Eggs

- Eduardo, S. L., [1977], *Philippine J. Vet. Med.*, v. 15 (1-2), 1976, 117-122
Carmyerius synthes and *Gastrothylax crumenifer* from slaughtered animals, egg-shell formation, histochemical observations

Eggs

- Farland, W. H.; and MacInnis, A. J., 1978, *Internat. J. Parasitol.*, v. 8 (3), 177-186
Ascaris lumbricoides, purine nucleotide content of developing eggs, implications for nucleic acid metabolism

Eggs

- Ferreira, L. D. B. B., 1977, *Reposit. Trab. Lab. Nac. Invest. Vet.*, Lisboa, v. 9, 145-147
Toxocara canis, *Trichuris vulpis*, dogs, detailed study of eggs

Eggs

- Ford, J. W.; and Blankespoor, H. D., 1979, *Internat. J. Parasitol.*, v. 9 (2), 141-145
Schistosoma, 3 human spp., eggs, scanning electron microscopy

- Eggs
Ginetsinskaia, T. A.; et al., 1971, Parazitologiya, Leningrad, v. 5 (2), 147-154
platyhelminths (47 species), glycogen and fat distribution in yolk glands and complex eggs, accumulation of reserve substances in yolk glands appears to vary with type of egg development (in external environment vs. in uterus of parent), digenetic trematodes accumulate only glycogen and not fat
- Eggs
Hackett, C. J.; and Chen, K. C., 1978, Analyt. Biochem., v. 89 (2), 487-500
Ascaris lumbricoides var. *suum*, A. megaloccephala, procedure for quantitative isolation of native chitin from fertilized eggs
- Eggs
Hausmann, K., 1979, Mikrokosmos, v. 68 (12), 380-382
Pediculus humanus capitis, eggs, morphology, scanning electron microscopy
- Eggs
Heath, A. C. G., 1979, Internat. J. Parasitol., v. 9 (1), 33-39
Haemaphysalis longicornis, *Ixodes holocyclus*, and *Rhipicephalus sanguineus* eggs, temperature and humidity preferences
- Eggs
Hinton, H. E., 1977, J. Insect Physiol., v. 23 (7), 785-800
Haematopinus suis, functional significance of structures of eggshell, how egg maintains low equilibrium temperature in direct sunlight, brief complementary observations on other Anoplura and some Mallophaga
- Eggs
Ho, Y. H.; and Yang, H. C., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 243-262
Schistosoma japonicum, egg formation and chemical nature of egg shell, histological and histochemical study, morphological changes in egg formation following treatment of infected mice with thiourea compounds
- Eggs
Hsu, S. E., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 231-242
Schistosoma japonicum, in vitro culture, role of red blood cells in culture medium, egg production and development
- Eggs
Jones, B. R., 1979, IRCS J. Med. Sc., v. 7 (8), 391-392
Hydatigera taeniaformis eggs, surface topography, scanning electron microscopy and X-ray microanalysis
- Eggs
Khotenovskii, I. A., 1975, Parazitologiya, Leningrad, v. 9 (1), 17-27
Diplozoon spp., morphology of eggs and larvae, technique for hatching larvae and their impregnation by silver, distribution of ciliated cells and sensillae in larvae, possible use of egg and larval characters in species differentiation
- Eggs
Kuperman, B. I., 1978, Biol. Moria, Vladivostok (4), 53-60
Eubothrium salvelini, *E. crassum*, life cycles, egg structure, influence of salinity on ontogenesis of early stages: Kamchatka river basin
- Eggs
Lysek, H., 1978, Parasitology, v. 77 (2), 139-141
Ascaris lumbricoides, effect of ovicidal fungus (*Verticillium chlamydosporium*) on eggs, scanning electron microscopy
- Eggs
Mauro, N. A.; and Weinstein, P. O., 1979, Internat. J. Parasitol., v. 9 (5), 421-427
Nematospiroides dubius, *Nippostrongylus brasiliensis*, nutritional requirements for development of free-living stages in vitro: effects of sterols, rat hematin, and coproporphyrin; analysis of egg lipids
- Eggs
Mazzini, M.; and Ermini, G., 1978, Redia, 3. s., v. 61, 259-267
Pediculus humanus capitis, morphology of egg, transmission and scanning electron microscopy
- Eggs
Molet, B.; and Kremer, M., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 431-433
"trichocephales", morphological alterations of eggs after thiabendazole therapy
- Eggs
Oshmarin, P. G., 1978, Zool. Zhurnal, v. 57 (8), 1125-1130
Trematoda, morphophysiology of yolk glands and egg formation, review
- Eggs
Parshad, V. R.; and Guraya, S. S., 1978, Parasitology, v. 77 (2), 133-138
Centrorhynchus corvi, oocyte atresia in ovarian balls, morphological and histochemical observations
- Eggs
Proctor, E. M.; and Gregory, M. A., 1974, South African Med. J., v. 48 (46), 1947-1948
Paragonimus sp., unable to detect any morphological differences in ultrastructural study of ova from human and cat feces: Durban, South Africa
- Eggs
Ramalingam, K., [1972], An. Inst. Biol., Univ. Nac. Mexico, v. 41 (1), s. Zool., 1970, 145-154
Pricea multae, and other trematodes, role of vitelline cells and Mehli's gland in formation of egg-shell
- Eggs
Rostikov, V. P., 1978, Gig. i Sanitariia (9), 88-90
new technique for studying survival of helminth eggs in soil
- Eggs
Singh, S. P.; and Sinha, D. P., 1979, Indian J. Animal Research, v. 13 (1), 27-30
trematodes of frogs, histochemical mechanism of egg shell formation

- Eggs
 Srivastava, M.; and Gupta, S. P., 1978, Ztschr. Parasitenk., v. 55 (1), 55-58
 Isoparorchis hypselobagri, polyphenol oxidase activity, probable role in egg-shell formation; scleroprotein/melanin pigment in egg
- Eggs
 Uspenskii, I. V., 1977, Zool. Zhurnal, v. 56 (5), 786-788
 Dermacentor silvarum, egg batches in constant humidity conditions, weight changes during development
- Eggs
 Vargas V., M., 1970, Rev. Biol. Trop., v. 17 (1), 1969, 27-89
 Porocephalus stilesi eggs and nymphal stages, P. clavatus eggs, extensive morphological and morphometric comparisons with P. crotali to determine distinguishing characteristics; no satisfactory characters were confirmed
- Eggs
 Wharton, D. A., 1978, Tissue and Cell, v. 10 (4), 647-658
 Trichuris spp., eggs, electron microscopy of thin sections and freeze etch replicas, evidence in support of Bouligand hypothesis of helicoidal architecture
- Eggs
 Wharton, D. A., 1979, Exper. Parasitol., v. 48 (3), 398-406
 Ascaris lumbricoides, eggs, effect of humidity on embryonic development, rate of water loss during desiccation, effect of temperature on water loss
- Eggs
 Wharton, D. A., 1979, Internat. J. Parasitol., v. 9 (2), 127-131
 Porrocaecum ensicaudatum, structure of egg-shell
- Eggs
 Wharton, D. A., 1979, Parasitology, v. 78 (2), 131-143
 Aspiculuris tetraptera, gross morphology of reproductive system, oogenesis, fertilization, egg-shell formation, cap cell and rachis, cytoplasmic inclusions of oocyte, formation of uterine layers
- Eggs
 Wharton, D. A., 1979, Parasitology, v. 78 (2), 145-154
 Aspiculuris tetraptera, egg-shell, nomenclature of shell layers, structure and histochemistry of shell layers and uterine layers
- Eggs
 Wharton, D. A., 1979, Parasitology, v. 79 (1), pp. 1-12
 Hammerschmidtella diesingi, structure and histochemistry of egg-shell, gross morphology of reproductive system, cytoplasmic inclusions of oocyte, shell formation
- Eggs
 Wharton, D. A., 1979, Parasitology, v. 79 (1), 13-28
 Syphacia obvelata, structure and histochemistry of egg-shell, gross morphology of reproductive system, shell formation
- Eggs
 Wharton, D. A.; and Jenkins, T., 1978, Tissue and Cell, v. 10 (3), 427-440
 Trichuris suis, egg-shell, structural and chemical analysis
- Eggs
 Yen, T. C.; Chiu, L. Z.; and Hsueh, H. C., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 263-272
 Schistosoma japonicum, development and changes of eggs in tissues of mice and rabbits, fluorescence-staining method for determining dead and living eggs in host
- Eggs
 Zulauf, E.; and Gut, C., 1978, European J. Biochem., v. 82 (2), 577-583
 Ascaris lumbricoides, isolation of messenger RNA coding for eggshell protein in this DNA-eliminating nematode
- Eggs
 Zyngier, F. R., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (5), 269-271
 Toxocara canis, unembryonated eggs, scanning electron microscopy
- Egypt
 Farag, H. F.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (9-10), 188-190
 prevalence survey, parasitic infections in residents of Abis II village, Egypt
 (S. haematobium; S. mansoni; Fasciola spp.; Hymenolepis nana; Ascaris lumbricoides; Trichuris trichiura; Ancylostoma duodenale; Entamoeba coli; Entamoeba histolytica; Giardia lamblia)
- Electron microscopic morphology. See Morphology.
- Electron microscopic technique. See Technique, Electron microscopic.
- Electron transport. See Metabolism; Respiration.
- Electrophoresis
 Al-Taqi, M.; and Evans, D. A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 56-65
 Leishmania spp., characterization by isoenzyme electrophoresis, comparison of stocks from Kuwait with stocks from other parts of Old and New Worlds
- Electrophoresis
 Baker, J. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 483-491
 Trypanosoma (Schizotrypanum) spp. from Microchiroptera, characterization by DNA buoyant densities and by electrophoretic patterns of 6 isoenzymes
- Electrophoresis
 Brazil, R. P., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 289-291
 Leishmania spp., variation in electrophoretic mobility of the enzyme phosphoglucose mutase in the parasite and its application to the differentiation of leishmanial strains

Electrophoresis

- Chance, M. L.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 533-542
Leishmania, identification of 68 strains from Aethiopian zoogeographical region on basis of biochemical and serological taxonomy (nuclear and kinetoplast DNA buoyant density, excreted factor serotypes, enzyme variant types), epidemiological implications

Electrophoresis

- Ebert, F.; Schudnagis, R.; and Muehlfordt, H., 1978, Tropenmed. u. Parasitol., v. 29 (1), 115-118
Trypanosoma cruzi and other *Trypanosoma* spp., protein typing by disc electrophoresis

Electrophoresis

- Gibson, W.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (3), 335-345
Trypanosoma brucei gambiense, identification in Liberian pigs and dogs by isoenzyme electrophoresis and by resistance to human plasma, peptidase polymorphism demonstrated; stock from 2 pigs resistant to human plasma and contained enzyme marker previously found only in man, evidence that pigs are reservoirs for human infection in West Africa

Electrophoresis

- Gibson, W. C.; et al., 1978, Comp. Biochem. and Physiol., v. 60B (2), 137-142
Trypanosoma evansi, 10 isolates compared, isoenzymes, soluble proteins, polypeptides, free amino acids (starch gel electrophoresis, isoelectric focusing, SDS polyacrylamide electrophoresis, amino acid analysis)

Electrophoresis

- Goncalves de Lima, V. M. Q.; Roitman, I.; and Kilgour, V., 1979, J. Protozool., v. 26 (4), 648-652
 trypanosomatids, 7 species distinguished by electrophoretic mobilities of some isoenzymes

Electrophoresis

- Hannon, R. H.; and Parr, C. W., 1978, Comp. Biochem. and Physiol., v. 60B (2), 177-181
Trypanosoma brucei, *T. vivax*, bloodstream forms, phosphoglucose isomerases, partial purification and characterization, comparison of the two species, many similarities in kinetic properties but differences in thermal stability and in isoelectric point

Electrophoresis

- Healy, J. A., 1979, Parasitology, v. 78 (1), 7-17
Ixodes ricinus, samples from several Irish localities and from spring and autumn ticks collected in one area, detection by electrophoresis of very high allelic variation at locus coding for phosphoglucose mutase, allele frequency patterns, both spatial and temporal genetic differentiation exist, possible use of this polymorphism in population and taxonomic studies, possible adaptive significance of polymorphism in autecology of parasite

Electrophoresis

- Healy, J. A., 1979, Genetica, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Electrophoresis

- Heidrich, H. G.; et al., 1979, Ztschr. Parasitenk., v. 58 (2), 151-159
Plasmodium vinckei, separation of infected and uninfected mouse erythrocytes and isolation of free parasites by free-flow electrophoresis

Electrophoresis

- Kasprzak, W.; Mazur, T.; and Rucka, A., 1974, Ann. Soc. Belge Med. Trop., v. 54 (4-5), 351-357
 4 strains of free-living amoebae isolated from lakes in Poland, pathogenicity for mice, response to several drugs, identified as *Acanthamoeba* spp. on basis of morphology and protein disc electrophoretic patterns

Electrophoresis

- Khan, R. A.; and Cowan, G. I. McT., 1976, Canad. J. Zool., v. 54 (10), 1803-1805
Malmiana spp., *Oceanobdella* spp., micro starch-gel electrophoretic patterns of muscle myogens, possible tool for taxonomy of leeches

Electrophoresis

- Klimenko, V. V.; and Velichko, I. V., 1972, Parazitologiya, Leningrad, v. 6 (3), 291-296
Calicophoron calicophorum, *Liorchis scotiae*, *Gastrothylax crumenifer*, disc electrophoresis on polyacrylamide gel, characteristic differences in protein spectrum, possible use in taxonomy

Electrophoresis

- Kreier, J. P.; Al Abbassy, S. N.; and Seed, T. M., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 10-20
Trypanosoma cruzi, 3 morphologic forms, surface charge characteristics and their use in separation of these forms, DEAE cellulose column chromatography, particle electrophoresis system

Electrophoresis

- Le Riche, P. D.; and Sewell, M. M. H., 1978, Internat. J. Parasitol., v. 8 (6), 479-483
 8 taeniid cestodes, differentiation by enzyme electrophoresis

Electrophoresis

- Le Riche, P. D.; and Sewell, M. M. H., 1978, Research Vet. Sc., v. 25 (2), 247-248
Echinococcus granulosus, zymograms of glucose phosphate isomerase to differentiate biochemical strains, results indicate an 'ovine' strain (in sheep and cattle) and an 'equine' strain (in horses), strain from camels may also be biochemically different

Electrophoresis

Letch, C. A., 1979, *Parasitology*, v. 79 (1), 107-117

Trypanosoma cobitis should be regarded as single species of trypanosome from 6 spp. of British fish on basis of morphology, isoenzyme patterns, and cross-transmission (by syringe passage of culture forms and by leech vector *Hemiclepsis marginata*), specific names *T. phoxini*, *T. elegans*, *T. barbatulae*, *T. occidentalis*, and *T. langeroni* "should be disregarded"

Electrophoresis

Mahon, R. J.; and Shiff, C. J., 1978, *J. Parasitol.*, v. 64 (2), 372-373

Schistosoma haematobium, *S. mattheei*, differentiation of cercariae emerging from *Bulinus* snails by separation of phosphoglucosylase bands by starch gel electrophoresis

Electrophoresis

Melrose, T. R.; and Brown, C. G. D., 1979, *Research Vet. Sc.*, v. 27 (3), 379-381

piroplasms isolated from bovine blood infected with *Theileria annulata* and *T. parva*, isoenzyme variation

Electrophoresis

Migasena, P.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (1), 3-12

human acute falciparum malaria, changes in serum protein patterns studied using polyacrylamide gel electrophoresis, other blood biochemical parameters

Electrophoresis

Miles, M. A.; et al., 1978, *Nature*, London (5656), v. 272, 819-821

Trypanosoma cruzi, enzyme electrophoresis reveals 3 discrete forms of parasite in Brazil including recently discovered type responsible for first autochthonous patients with Chagas' disease in Belem, Para state

Electrophoresis

Momen, H., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 109-115

Plasmodium, *Babesia*, and *Anthemiosoma* spp. in mouse erythrocytes, identification of enzymes of parasite origin using starch-gel electrophoresis

Electrophoresis

Nerad, T. A.; and Daggett, P. M., 1979, *J. Protozool.*, v. 26 (4), 613-615

Naegleria fowleri, *N. gruberi*, isoenzyme electrophoresis as effective method for separation of pathogenic and nonpathogenic *Naegleria* strains

Electrophoresis

Rollinson, D.; Joyner, L. P.; and Norton, C. C., 1979, *Parasitology*, v. 78 (3), 361-367

Eimeria maxima (Weybridge) and *E. maxima* (indentata) were distinguished by electrophoretic mobility of phosphoglucosylase, this enzyme was used as marker to detect genetic transfer of methyl benzoate resistance between resistant and sensitive lines of these parasites

Electrophoresis

Romanha, A. J.; et al., 1979, *Comp. Biochem. and Physiol.*, v. 62B (2), 139-142

Trypanosoma cruzi, isoenzyme patterns of 4 soluble enzymes in seven parasite stocks determined by electrophoresis, changes after prolonged subculture

Electrophoresis

Ross, G. C.; Southgate, V. R.; and Knowles, R. J., 1978, *Ztschr. Parasitenk.*, v. 57 (1), 49-56

Schistosoma bovis strains, *S. mattheei*, *S. margrebowiei*, *S. leiperi*, isoenzymes compared by isoelectric focusing, technique for further studies of inter- and intraspecific relationships

Electrophoresis

Said-Fernandez, S.; and Lopez-Revilla, R., 1978, *Ztschr. Parasitenk.*, v. 56 (3), 219-225

Entamoeba histolytica (two strains), *E. invadens*, *E. moshkovskii*, proteins analyzed by disc electrophoresis and immunodiffusion, suggests use as taxonomic criterion

Electrophoresis

Sargeant, P. G.; and Williams, J. E., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (2), 164-166

Entamoeba histolytica (14 stocks), *E. coli* (1 stock), electrophoretic isoenzyme patterns

Electrophoresis

Sargeant, P. G.; and Williams, J. E., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (2), 225-227

pathogenic and non-pathogenic intestinal amoeba of man, all species can easily be distinguished by characteristic electrophoretic isoenzyme patterns

Electrophoresis

Sargeant, P. G.; Williams, J. E.; and Grene, J. D., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 519-521

Entamoeba histolytica, differentiation of invasive and non-invasive forms by isoenzyme electrophoresis

Electrophoresis

Shirley, M. W., 1978, *Ztschr. Parasitenk.*, v. 57 (1), 83-87

Eimeria mivati and *E. mivati* var. *diminuta* strains differing in sensitivity to sulphaquinoxaline and electrophoretic mobility of lactate dehydrogenase crossed; electrophoretic variation of enzymes a further marker for genetic studies

Electrophoresis

Suzuki, M.; et al., 1979, *Bull. World Health Organ.*, v. 57 (1), 129-132

Plasmodium berghei-parasitized rat erythrocytes, isolation by carrier-free electrophoresis

Electrophoresis

Vrijenhoek, R. C., 1978, *J. Parasitol.*, v. 64 (5), 790-798

Contracaecum, 2 morphologically indistinct populations of larvae from *Poeciliopsis* spp. and *Cichlasoma baeni*, electrophoretic examination of proteins (enzymatic and non-enzymatic) produced by 11 gene loci revealed presence of 2 sexually reproducing sympatric 'semispecies' that have diagnostically distinct alleles for 2 loci: Sonora, Mexico

Electrophoresis

Wright, C. A.; Rollinson, D.; and Goll, P. H., 1979, *Parasitology*, v. 79 (1), 95-105

Bulinus senegalensis and associated parasites, isoelectric focusing studies on enzymes, differences in prevalence and variety of infections in 7 host populations: south bank of Gambia River

Electrophoresis

- Wright, C. A.; Southgate, V. R.; and Ross, G. C., 1979, *Internat. J. Parasitol.*, v. 9 (6), 523-528
Schistosoma intercalatum, Lower Guinea vs. Zaire strains, enzyme analysis by isoelectric focusing

Electrophoresis

- Yoshida, Y.; et al., 1977, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 26 (3), 168-174
Ancylostoma braziliense, *A. ceylanicum*, whole body proteins, disc electrophoretic comparison

Elephantiasis. [See also Lymphatic system]

Elephantiasis

- Carme, B.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 424-426
 filarial elephantiasis, study concerning beliefs of patients about the origin of their disease: Tahiti

Elephantiasis

- Mahadevan, R., 1978, *Trop. Doctor*, v. 8 (1), 28-35
Wuchereria bancrofti, *Brugia malayi*, humans, advances in surgical treatment of filariasis with emphasis on elephantiasis and chyluria

Elephantiasis

- Rougemont, A.; and Balique, H., 1978, *Lancet*, London (8084), v. 2, 322
Wuchereria bancrofti, humans, differentiation of elephantiasis and complicated varicose veins as causes of "big leg" in a Mali population

Elevation. See Altitude.

El Salvador

- Bloch, M.; Rivera G., H.; and Guzman G., A., 1978, *Rev. Inst. Invest. Med.*, San Salvador, v. 7 (2), 146-156
 frequency of intestinal parasites diagnosed in adults, suggestions for diagnosis and treatment: San Salvador, El Salvador
 (*E. histolytica*; *Giardia lamblia*; *Trichomonas hominis*; *Ascaris lumbricoides*; *Trichocephalus trichiurus*; *Strongyloides stercoralis*; *Taenia solium*; *Ancylostoma*; *Necator*)

El Salvador

- Bloch, M.; Rivera G., H.; and Guzman G., A., 1978, *Rev. Inst. Invest. Med.*, San Salvador, v. 7 (2), 169-176
 frequency of intestinal parasites diagnosed in local children, suggestions for management and therapy: San Salvador, El Salvador
 (*E. histolytica*; *Giardia lamblia*; *Ancylostoma duodenale*; *Necator americanus*; *Ascaris lumbricoides*; *Trichocephalus trichiura*; *Hymenolepis nana*; *Trichomonas hominis*; *Taenia* sp.)

Embryology. [See also Development]

Embryology

- Bazitov, A. A.; et al., 1978, *Zool. Zhurnal*, v. 57 (5), 653-657
Bothriocephalus scorpii, embryonic development, cleavage characteristics, duration of developmental stages, time and growth rate of oncosphere hooks

Embryology

- Coil, W. H., 1977, *Ztschr. Parasitenk.*, v. 52 (3), 311-318
Shibleya inermis, embryogenesis of oncosphere, scanning and transmission electron microscopy of submucosal capsule, outer capsule, outer envelope

Embryology

- Coil, W. H., 1979, *Ztschr. Parasitenk.*, v. 59 (2), 151-159
Cittotaenia variabilis, embryogenesis, transmission and scanning electron microscopy

Embryology

- Davis, A. H.; Kidd, G. H.; and Carter, C. F., 1979, *Biochim. et Biophys. Acta*, v. 565 (2), 315-325
Ascaris suum, chromosome diminution, two-fold increase of nucleosomal histone to DNA ratios during development

Embryology

- Ellis, D. S.; et al., 1978, *J. Helminth.*, v. 52 (1), 7-10
Dipetalonema viteae, intrauterine development of microfilariae, comparison with *Brugia pahangi*

Embryology

- Fournier, A.; and Combes, C., 1979, *Compt. Rend. Acad. Sc.*, Paris, v. 289, s. D, Sc. Nat. (10), 745-747
Eupolystoma alluaudi, demonstration of embryonic developmental duality resulting in 2 types of larvae, one of which is responsible for internal cycle (multiplication in host by sexual reproduction) and one of which assures host-to-host transmission

Embryology

- Rao, K. H.; Shyamasundari, K.; and Kumari, B. V., 1977, *Current Sc.*, Bangalore, v. 46 (16), 565-566 [Letter]
Tanqua anomala, embryology, suitable model to demonstrate characteristic cleavage pattern

Embryology

- Shmytova, G. Ia., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 21, 157-166
Trichocephalus muris, embryonic development in vitro and post-embryonic development in mice described, morphological criteria for recognition of embryo and larval stages of *Trichocephalus*

Encephalitis. [See also Encephalomyelitis; Meningoencephalitis]

Encephalitis

- Best, T.; and Finlayson, M., 1979, *Arch. Path. and Lab. Med.*, v. 103 (13), 693-696
Toxoplasma gondii, humans, 2 forms of encephalitis associated with opportunistic infection

Encephalitis

- de Crousaz, G.; and de Tribolet, N., 1972, *Schweiz. Arch. Neurol., Neurochir. u. Psychiat.*, v. 110 (1), 1-12
 toxoplasmosis, necrotizing and granulomatous fatal parasitic infection in woman with stabilized Hodgkin's disease, case report, discussion of diagnostic problems

Encephalitis

- Gillet, J.; et al., 1979, Am. J. Med., v. 67 (5), 891-896
Acanthamoeba astronyxis, Mexican woman, fatal case of disseminated granulomatous infection with skin lesion and focal encephalitis: San Francisco

Encephalitis

- Martinez, A. J.; and Janitschke, K., 1979, Immun. u. Infekt., v. 7 (2), 57-64
Naegleria fowleri, *Acanthamoeba*, human, histopathology, protozoology and taxonomy, epidemiology, treatment, animal models, review

Encephalitis

- Stavale, J. N.; De Bortoli, N. A.; and Guidugli Neto, J., 1977, Rev. Paul. Med., v. 90 (3-4), 75-77
Toxoplasma gondii, child receiving immunosuppressive drugs for rheumatoid arthritis, recurrent infection with toxoplasmosis resulting in fatal encephalitis: Sao Paulo, Brazil

Encephalitis

- Winterfield, R. W.; and Thacker, H. L., 1978, Avian Dis., v. 22 (2), 336-339
Ascaroidea [sp.] in *Dromaius novaehollandiae* (cerebellum), case report, encephalitis and bilateral paralysis of legs, histopathology

Encephalomyelitis. [See also Encephalitis; Meningoencephalitis]

Encephalomyelitis

- Cravero, G. C., 1977, Ann. Fac. Med. Vet. Torino, v. 24, 144-153
Toxoplasma gondii, calf, congenital encephalomyelitis, perivascular mononuclear infiltrations, nodular gliosis and granulomatous lesions in spinal cord

Encystment. See Cysts.

Endocrines. See Gland; Hormones.

Endocytosis. [See also Invasion mechanisms; Pinocytosis; Phagocytosis]

Endocytosis

- Aikawa, M.; and Kilejian, A., 1979, Lysosomes Applied Biol. and Therap., v. 6, 31-48
 parasitic protozoa, invasion procedures and intracellular localization, review: entry into host cell; resistance to intracellular host digestive enzymes; alteration of host cells and utilization of host cell resources

Endocytosis

- Chang, K. P., 1979, Exper. Parasitol., v. 48 (2), 175-189
Leishmania donovani, promastigote-macrophage surface interactions in vitro

Endocytosis

- da Cunha, A. B.; and Jurand, A., 1978, Arch. Protistenk., v. 120 (5), 235-254
Schneideria schneiderae in *Trichosia pubescens* (exper.), entry into and development in cells of intestinal caecum, host cell-symbiont interrelations, metabolic exchanges, symbiotic bacteria in cytoplasm of *Schneideria*, ultrastructural study

Endocytosis

- Cursons, R. T. M.; Brown, T. J.; and Keys, E. A., 1978, J. Parasitol., v. 64 (4), 744-745
Naegleria, *Acanthamoeba*, pathogenic vs. non-pathogenic strains, differences in level of production of phospholipase A may explain differences in invasiveness and virulence, likely that secretion of enzyme constitutes initial steps whereby host tissue is prepared for endocytosis by these amebae

Endocytosis

- Francis, D. H.; Kinden, D. A.; and Buening, G. M., 1979, Am. J. Vet. Research, v. 40 (6), 777-782
Anaplasma marginale, limiting membrane of anaplasma inclusion body determined to be of erythrocytic origin by immunoferritin labeling, endocytosis seems reasonable mechanism for entry of anaplasma initial body into erythrocyte

Endocytosis

- Liston, A. J.; and Baker, J. R., 1978, J. Gen. Microbiol., v. 107 (2), 253-262
Trypanosoma dionisii, phagocytosis by mouse peritoneal macrophages in vitro and subsequent fate therein

England. See Great Britain, England.

Enteritis. [See also Intestine]

Enteritis

- Balauca, N., 1978, Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur, v. 13, 127-141
 experimental reproduction of necrotic enteritis in chicks with mixed infections of *Clostridium perfringens* and coccidia

Enteritis

- Burel, J.; et al., 1979, Bull. G.T.V. (3), 15-21
 chronic enteritis in slaughter cattle, plan for statistical study of observed parasite lesions: lower Normandy

Enteritis

- Sendral, R.; and Prieur, G., 1979, Bull. G.T. V. (3), 29-40
 parasitism and other factors in enteric syndrome, diagnosis from point of view of practitioner and of laboratory

Entomology

- Bruce-Chwatt, L. J., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 211-212 [Letter]
 origins of medical entomology with reference to history of human scabies

Entomology

- Service, M. W., 1978, J. Med. Entom., v. 14 (6), 603-626
 history of early medical entomology, review

Entomology, Manuals and textbooks

- Coppel, H. C.; and Mertins, J. W., 1977, Advanced Ser. Agric. Sc., v. 4, 314 pp.
 nematodes, protozoans, and other organisms used in classical biological insect pest suppression

Entomology, Manuals and textbooks

- Fundamentals of Applied Entomology (Pfadt), 1978, 3. ed., 798 pp., illus.

- Entomology, Manuals and textbooks
Lhoste, J., 1975, La protection de l'homme contre les insectes, [189] pp.
- Entomology, Manuals and textbooks
Potemkin, V. I., 1975, Parazitol. i Invaz. Bolezni Sel'skokhoz. Zhivot. (Abuladze), 170-217
veterinary entomology
- Entomology, Manuals and textbooks
World Health Organization. Division of Malaria and Other Parasitic Diseases, 1975, Manual on practical entomology in malaria. Part I. Vector bionomics and organization of anti-malaria activities, 160 pp., illus.
bionomics of mosquito populations and organization of anti-malaria activities
- Entomology, Manuals and textbooks
World Health Organization. Division of Malaria and Other Parasitic Diseases, 1975, Manual on practical entomology in malaria. Part II. Methods and techniques, 191 pp., illus.
malaria, methods and techniques for collecting and studying vector mosquitoes
- Environment. See Ecology.
- Enzyme-linked immunosorbent assay. See Immunity, Enzyme labelling.
- Enzymes. [See also Biochemistry; Metabolism]
- Enzymes
Chapman, H. D., 1978, Ztschr. Parasitenk., v. 56 (2), 115-121
Eimeria spp., excystation, roles of various enzymes
- Enzymes
Juhasz, S., 1979, Acta Vet., Budapest, v. 27 (1-2), 1977-1979, 89-91
Ascaris suum, females, trypsin and chymotrypsin inhibitors released in vitro, secretion from body region other than anal or oral openings
- Enzymes
Nemeth, I.; Juhasz, S.; and Baintner, K., 1979 Internat. J. Parasitol., v. 9 (6), 515-522
Taenia pisiformis, trypsin and chymotrypsin inhibitor demonstrated in somatic extract of mature tapeworms
- Enzymes
Osuna-Carrillo, A.; et al., 1978, Rev. Iber. Parasitol., v. 38 (3-4), 569-578
Taenia hydatigena cysticerci, in vitro evagination, combined action of trypsin, pancreatin and dog bile necessary
- Enzymes
Willadsen, P.; and Riding, G. A., 1979, Biochem. J., v. 177 (1), 41-47
Boophilus microplus, proteolytic-enzyme inhibitor with allergenic activity, purification and partial characterization
- Enzymes, Host
Abdel Samad, M. M.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (4), 554-559
Schistosoma mansoni, mice, liver monoamine oxidase activity during course of infection and after chemotherapy, may be useful index for progression or regression of liver fibrosis
- Enzymes, Host
Al-Mallah, A. K.; Abdel Aziz, F. T.; and Hassanein, R. R., 1977, Zentralbl. Vet.-Med., Reihe A, v. 24 (1), 76-80
Schistosoma haematobium, human males, normal rats and Dutch rabbits, ambilhar, activity of serum choline esterase and transaminases as measure of side effects of drug on liver
- Enzymes, Host
Anderson, P. H.; Berrett, S.; and Patterson, D. S. P., 1978, J. Comp. Path., v. 88 (2), 245-251
Fasciola hepatica, cattle, resistance to re-infection, increases in plasma glutamate dehydrogenase and gamma-glutamyl transferase activities after first infection but not second, gross pathology of liver, less damage from second infection
- Enzymes, Host
Arakcheeva, S. G.; Zubitskaia, M. A.; and Isaeva, Kh. B., 1976, Med. Parazitol. i Parazitar. Bolezni, v. 45 (1), 81-84
Hymenolepis nana, mice, comparative histochemical study of nucleic acids, carbohydrates, and alkaline phosphatase in parasite and in host
- Enzymes, Host
Armour, J.; et al., 1979, Vet. Rec., v. 105 (22), 500-503
Ostertagia ostertagi, cattle, epidemiology of naturally acquired infections studied through 2 successive grazing seasons with particular reference to faecal egg counts, herbage larval numbers, worm burdens, and plasma pepsinogen levels: south west Scotland
- Enzymes, Host
Asi, T., 1978, Vet. Fak. Dergisi, Istanbul Univ., v. 4 (2), 9-13
tick-infested bulls, hemoglobin, bilirubin, and transaminase values
- Enzymes, Host
Bankov, I.; et al., 1977, Khelmitologia, Sofia, v. 4, 3-10
Fasciola hepatica, increased enzyme activity in blood serum of guinea pigs
- Enzymes, Host
Behmer, O. A., 1973, Rev. Hosp. Clin., S. Paulo, v. 28 (4), 212-221
S[chistosoma] mansoni, human, determination of elastase in blood platelets and the role of elastase in granuloma formation in lungs
- Enzymes, Host
Bienze, U.; Guggenmoos-Holzmann, I.; and Luzzatto, L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 619-621
malaria, gene for erythrocyte glucose-6-phosphate dehydrogenase deficiency in heterozygous females confers advantage against malaria: Nigeria
- Enzymes, Host
Boreham, P. F. L., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 249-255
[Trypanosoma] brucei, rabbits, possible pathologic effects of kallikrein and kinin release early in infection, consideration of similar mechanisms in human infection

Enzymes, Host

- Campana, J. O., 1977, Rev. Paul. Med., v. 90 (3-4), 37-44
Chagas disease, decreased lipoprotein lipase activity in persons with chronic infection

Enzymes, Host

- Cha, Y. N., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1181-1187
Schistosoma mansoni-infected mice, activities of some hepatic drug-metabolizing enzymes can be increased by treatment with inducers

Enzymes, Host

- Cha, Y. N.; and Bueding, E., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1188-1191
Schistosoma mansoni, mice, recovery of hepatic drug-metabolizing capacity following curative dose of 4-isothiocyano-4'-nitro-diphenylamine

Enzymes, Host

- Chiejina, S. N., 1978, Vet. Rec., v. 103 (13), 278-281
Ostertagia ostertagi, healthy cows and calves, blood pepsinogen levels, compared with samples from diarrhoeic adult cattle, diagnostic value in mature cattle

Enzymes, Host

- Cheng, T. C.; et al., 1978, J. Invert. Path., v. 31 (1), 57-62
Echinostoma lindoense-infected Biomphalaria glabrata, elevation of aminopeptidase activity in hemocytes and serum, possible that this lysosomal enzyme may degrade surface proteins of secondarily introduced parasites and thus act as form of acquired humoral immunity

Enzymes, Host

- Cheng, T. C.; Guida, V. G.; and Gerhart, P. L., 1978, J. Invert. Path., v. 32 (3), 297-302
snail defense mechanisms, Biomphalaria glabrata challenged with bacteria, significant elevations in levels of total serum proteins, levels of lysozyme activity not altered possibly due to age of snails

Enzymes, Host

- Coelho, L. C. B. B.; and Gillett, M. P. T., 1979, Biochem. Soc. Tr., v. 7 (5), 988-990
[Schistosoma] mansoni, human, hepatosplenic, effect of splenectomy on plasma phosphatidylcholine-cholesterol acyltransferase activity and on blood lipids

Enzymes, Host

- Dembinski, A. B.; Johnson, L. R.; and Castro, G. A., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 854-859
Trichinella spiralis-infected dogs, inhibitory action of secretin on gastrin-stimulated gastric acid and pepsin secretion is compromised

Enzymes, Host

- Dey-Hazra, A.; et al., 1979, Vet. Parasitol., v. 5 (4), 339-351
Strongyloides ransomi-infected piglets, protein synthesis changes in liver, glutathione status of liver, electrolyte concentrations in plasma, erythrocytes, and in different organs, plasma enzyme activities

Enzymes, Host

- Doenhoff, M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 260-273
Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-S. mansoni egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Enzymes, Host

- Dubinsky, P.; and Rybos, M., 1977, Vet. Med., Praha, v. 50, v. 22 (7), 433-439
Ascaridia galli, chicks (exper.), negative influence on level of free plasma amino acids, aspartate and alanine aminotransferase activities in host chick serum, single invasion failed to influence serum protein level or weight increase in chicks kept under hygienic conditions

Enzymes, Host

- Dunn, M. A.; Maragoudakis, M. E.; and Hait, P. K., 1978, Biochim. et Biophys. Acta, v. 538 (2), 328-333
Schistosoma mansoni, mice, 47-fold increase in activity of liver procollagen prolyl hydroxylase, effect of inhibitor, possibility that this enzyme may be rate-controlling in collagen deposition and that its inhibition may be therapeutically useful in liver fibrosis

Enzymes, Host

- Duszynski, D. W.; Roy, S. A.; and Castro, G. A., 1978, J. Protozool., v. 25 (2), 226-231
Eimeria nieschulzi, structural and functional changes in small intestine of infected rats (increase in intestinal mass; changes in mucosal structure especially increased crypt depth; decrease in peroxidase levels in lamina propria; reduction of brush border disaccharidase activity), intensity of all changes was directly dose-dependent

Enzymes, Host

- Eckman, J. R.; et al., 1976, Tr. Ass. Am. Physicians, v. 89, 105-115
Plasmodium berghei-infected mice (exper.), vitamin E deficiency moderates severity of infection since premature, oxidant-induced hemolysis of infected erythrocytes prevents orderly parasite maturation, restoration of susceptibility to malaria by vitamin E supplementation, observations provide basis for selective advantage of G-6-PD deficiency in areas of endemic malaria

Enzymes, Host

- Eckman, J. R.; and Eaton, J. W., 1979, Nature, London (5706), v. 278, 754-756
Plasmodium berghei may utilize host-cell NADPH for maintenance of parasite glutathione, these observations may elucidate both parasite-induced red cell oxidant damage and mechanism whereby glucose-6-phosphate dehydrogenase deficiency protects against fulminant malaria infection

- Enzymes, Host
El-Kholly, Z. A.; et al., 1979, Biochem. Pharmacol., v. 28 (21), 3171-3172
Schistosoma mansoni-infected and normal mice, effect of astiban on β -glucuronidase activity in liver, spleen, kidney, and bladder homogenates
- Enzymes, Host
El-Sewedy, S. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 525-528
bilharziasis, human, α -esterase activity in serum and urine, latter recommended as screening test for bilharzial bladder cancer
- Enzymes, Host
El-Zoghby, S. M.; et al., 1978, Acta Vitaminol. et Enzymol., v. 32 (1-4), 7-11
schistosomal polyposis of large intestine, humans, increased β -glucuronidase activity not carcinogenic nor indicative of presence of malignancy
- Enzymes, Host
Enigk, K.; and Dey-Hazra, A., 1978, J. Helminth., v. 52 (1), 83-89
gastrointestinal nematodes, piglets, disaccharidase activity in host intestinal contents and in nematodes themselves
- Enzymes, Host
Enigk, K.; and Dey-Hazra, A., 1978, Zentralbl. Vet.-Med., Reihe B, v. 25 (8), 613-622
roundworms, pigs (exper.), disaccharidase activity of gut mucosa, electrolyte content of plasma and various organs
- Enzymes, Host
Georgiev, M.; and Goranov, K., 1977, Khel-mintologiya, Sofia, v. 4, 17-21
Oesophagostomum dentatum, O. quadrispinulatum, increased enzyme activity in serum of experimentally infected pigs
- Enzymes, Host
Giannini, S. D.; et al., 1976, Rev. Hosp. Clin., S. Paulo, v. 31 (2), 109-115
Chagas disease, human chronic infections, activity of lipoprotein lipase, compared with normal controls
- Enzymes, Host
Goil, M. M.; and Harpur, R. P., 1979, Ztschr. Parasitenk., v. 60 (2), 177-183
Phocanema decipiens, comparison of non-specific acid phosphomonoesterase activity in larva with that of infected muscle of its host (Gadus morhua)
- Enzymes, Host
Goodger, B. V.; and Wright, I. G., 1977, Ztschr. Parasitenk., v. 54 (1), 9-27
Babesia bovis-infected cattle, altered and activated coagulation system, coagulation parameters, fibrinogen catabolism, and fibrinolysis in intact and splenectomized cattle
- Enzymes, Host
Goven, A. J., 1979, Internat. J. Parasitol., v. 9 (3), 193-198
Nippostrongylus brasiliensis, rats infected with various larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden
- Enzymes, Host
Goven, A. J., 1979, Internat. J. Parasitol., v. 9 (4), 345-349
Nippostrongylus brasiliensis, sensitized rats challenged with varied larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden
- Enzymes, Host
Goven, A. J.; and DeBuysscher, E. V., 1979, Am. J. Vet. Research, v. 40 (10), 1469-1471
Trichinella spiralis-infected swine, relation between intestinal phospholipase B activity and numbers of blood eosinophils
- Enzymes, Host
Guimaraes, R. X.; et al., 1979, AMB, Rev. Ass. Med. Brasil., v. 25 (5), 166-170
Schistosoma mansoni, humans with hepato-splenic or hepato-intestinal infections, values of 12 serum enzymes compared with normal values
- Enzymes, Host
Hein, B.; and Laemmler, G., 1978, Ztschr. Parasitenk., v. 57 (3), 199-211
Eimeria stiedai, rabbits (exper.), alteration of serum enzyme activities
- Enzymes, Host
Hirsch, R. P., 1979, Internat. J. Parasitol., v. 9 (5), 395-399
Histomonas meleagridis-infected turkeys, dynamics of protozoan population density, plasma glutamic oxalacetic transaminase, plasma bilirubin concentration, relationship to clinical symptoms
- Enzymes, Host
Hofmann, W.; and Amrousi, S. E., 1975, Vet. Med. J., Giza, v. 22 (22), 175-183
diseases of cattle, horses, and dogs, estimation of enzymes GOT and GPT to evaluate degree of hepatic involvement
- Enzymes, Host
Ishihara, K.; et al., 1978, Japan. J. Vet. Sc., v. 40 (2), 171-183
dirofilariasis, dogs with varying degrees of clinical severity, serum free cholesterol concentration, serum lecithin cholesterol acyltransferase activity, relationship to hepatic injury
- Enzymes, Host
Itskan, S. B.; and Saldanha, P. H., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (2), 83-91
human malaria, erythrocyte glucose-6-phosphate dehydrogenase activity in infected and non-infected persons in endemic region: Sao Paulo (Iguape)
- Enzymes, Host
Izaki, S.; Fukuyama, K.; and Epstein, W. L., 1979, J. Reticuloendothel. Soc., v. 26 (5), 507-514
Schistosoma mansoni, mice, modulation of anti-thrombin and anti-fibrinolytic activities in tissue during development of granulomas
- Enzymes, Host
Jaffe, J. J.; and Chrin, L. R., 1978, J. Parasitol., v. 64 (4), 661-668
Brugia pahangi-infected and normal Aedes aegypti, methylenetetrahydrofolate dehydrogenase (MTHFD) and reductase (MTHFR) activity, change in folate metabolism with advanced infections; suramin inhibited MTHFR activity but not MTHFD; MTHFR activity detected in crude extracts of adult parasites differed from that in mosquitoes

Enzymes, Host

Jaffe, J. J.; and Chrin, L. R., 1978, *J. Parasitol.*, v. 64 (5), 769-774

Brugia pahangi-infected and normal *Aedes aegypti*, serine transhydroxymethylase activity

Enzymes, Host

Jaffe, J. J.; and Chrin, L. R., 1979, *J. Parasitol.*, v. 65 (2), 226-232

Brugia pahangi-infected and normal *Aedes aegypti*, 10-formyltetrahydrofolate synthetase activity

Enzymes, Host

Jaffe, J. J.; and Chrin, L. R., 1979, *J. Parasitol.*, v. 65 (4), 550-554

Brugia pahangi-infected vs. normal *Aedes aegypti*, methionine synthetase activity

Enzymes, Host

Jaffe, J. J.; and Chrin, L. R., 1979, *Biochem. Pharmacol.*, v. 28 (12), 1831-1835

Brugia pahangi-infected and normal *Aedes aegypti*, thymidylate synthetase activity

Enzymes, Host

Juhász, S., 1979, *Acta Vet.*, Budapest, v. 27 (1-2), 1977-1979, 83-87

Ascaris suum, females, proteolytic enzymes and enzyme inhibitors, distribution in oesophagus, midgut, and hindgut; interaction of host pancreatic trypsin and chymotrypsin with parasite proteolytic enzymes, in vitro

Enzymes, Host

Juhász, S., 1979, *Acta Vet.*, Budapest, v. 27 (3), 225-231

Ascaris suum gut content activated host pancreatic amylase and lipase in vitro, activation unrelated to parasite gut protease system

Enzymes, Host

Kan, S. C.; and Siddiqui, W. A., 1979, *J. Protozool.*, v. 26 (4), 660-664

Plasmodium falciparum, comparison of dihydrofolate reductase from parasite and from *Aotus trivirgatus*

Enzymes, Host

Kassim, O. O.; and Richards, C. S., 1978, *Exper. Parasitol.*, v. 46 (2), 213-217

Schistosoma mansoni, levels of lysozyme activity in *Biomphalaria glabrata* (hemolymph, digestive gland, and headfoot extracts) during infection with compatible and incompatible parasite strains, results suggest that lysozyme does not by itself play a major role in the destruction of a schistosome infection in a resistant snail host

Enzymes, Host

Kassim, O. O.; and Richards, C. S., 1978, *Exper. Parasitol.*, v. 46 (2), 218-224

Biomphalaria glabrata (intermediate host of *Schistosoma mansoni*), lysozyme activities in hemolymph, digestive gland, and headfoot of uninfected snails

Enzymes, Host

Keller, H., 1978, *Schweiz. Arch. Tierh.*, v. 120 (4), 189-193

Dicrocoelium dendriticum, F[asciola] hepatica, cattle, glutamate-dehydrogenase and L- γ -glutamyl-transferase activities in sera, compared with cattle not showing macroscopic visceral lesions

Enzymes, Host

Kerboeuf, D., 1979, *Rev. Med. Vet.*, Toulouse, v. 130 (10), 1359-1360, 1365-1368

strongylosis, ruminants, diagnosis, blood pepsinogen levels

Enzymes, Host

Kerboeuf, D.; Hubert, J.; and Le Stang, J. P., 1979, *Rec. Med. Vet.*, v. 155 (2), 143-148

Ostertagia ostertagi, cattle, serum pepsinogen levels in relation to worm burden and anthelmintic treatments

Enzymes, Host

Khafagy, E. Z.; et al., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 183-197

human schistosomiasis, evaluation of leucine aminopeptidase activity and creatinine concentrations in persons with active bilharzial infections and comparison of findings with those in normal controls

Enzymes, Host

Khafagy, E. Z.; et al., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 199-212

human schistosomiasis, significance of alterations in urinary leucine aminopeptidase in various stages of infection in the presence and absence of hepatic involvement and in bladder cancer of schistosomal origin, correlation of findings with the presence of proteins in urine, possible application to diagnosis

Enzymes, Host

Khafagy, E. Z.; El-Raziky, E. H.; and Galal, A. F., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 213-219

human schistosomiasis, estimation of arylsulphatase A and B in infected subjects and normal controls, progressive increase in enzyme in both *mansoni* and *haematobium* infections, possible relationships between both types of parasitic infections and the etiology of schistosomal bladder cancer

Enzymes, Host

Kublitskene, O.; et al., 1976, *Med. Parazit. i Parazitar. Bolezni*, v. 45 (2), 153-157

Echinococcus granulosus, effects on rats (plasmocyte reaction, antibody in serum, liver glycogen content, serum transaminase)

Enzymes, Host

Kucera, M., 1978, *Acta Entom. Bohemoslov.*, v. 75 (2), 83-89

Nosema plodiae, properties of acid phosphatase formed in infected *Galleria mellonella* (exper.), presumably by host tissues

Enzymes, Host

Lal, A. A.; and Garg, N. K., 1979, *Exper. Parasitol.*, v. 48 (3), 331-336

Hartmannella culbertsoni, meningoencephalitic mice, biochemical changes in brain

Enzymes, Host

Laubach, H.; Kocan, A. A.; and Sartain, K. E., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1145-1146

Angiostrongylus cantonensis in specific pathogen-free rats, elevated lung lysophospholipase activity and bone marrow eosinophilia due to infection are not additive with increasing worm burdens, findings suggest immune-controlled mechanism of lysophospholipase activity increase during helminth infection

Enzymes, Host

- Major, J. R., jr.; and Ruff, M. D., 1978, J. Parasitol., v. 64 (4), 706-711
Eimeria spp.-infected broilers, reduced disaccharidase activity in region of intestine with maximum infection, this reduction is related to both time and severity of infection and can contribute to overall reduction in nutrient absorption

Enzymes, Host

- Major, J. R., jr.; and Ruff, M. D., 1978, Exper. Parasitol., v. 45 (2), 234-240
Eimeria spp., effects of coccidiosis on digestive capacity (amylase) of broiler chickens, changes in pancreatic, luminal, and surface-bound amylolytic activity, reduction in amylolytic activity as pH went below 5.0

Enzymes, Host

- Markiewicz, K.; Kuleta, Z.; and Romaniuk, K., 1975, Acta Parasitol. Polon., v. 23 (1-11), 177-182
Fasciola hepatica, cows, laboratory rats, serum ornithine carbamoyltransferase activity as indicator of extent of liver injury, anatomopathological and histopathological examinations

Enzymes, Host

- Martin, S. K.; et al., 1978, Lancet, London (8062), v. 1, 466-468
Plasmodium falciparum, low erythrocyte pyridoxal-kinase activity in serum of non-infected Black and White races in comparison to that of infected Black persons; possible relation to malarial infection, possibly requirement of parasite

Enzymes, Host

- Mello de Oliveira, J. A., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (5), 261-271
Trypanosoma cruzi, rats, study of changes in enzymatic activity in the duodenal Auerbach's plexus

Enzymes, Host

- Mello de Oliveira, J. A., 1976, Rev. Goiana Med., v. 22 (1-2), 1-65
Trypanosoma cruzi, human, histopathology of myocardium, enzyme histochemical changes in Chagasic cardiomyopathy

Enzymes, Host

- Mercado, T. I.; and Garbus, J., 1979, Comp. Biochem. and Physiol., v. 64B (1), 11-15
Trypanosoma cruzi, mice infected with myotropic vs. reticulotropic parasite strains, creatine phosphokinase isoenzymes in plasma and tissues

Enzymes, Host

- Michel, J. F.; et al., 1978, Vet. Rec., v. 103 (17), 370-373
Ostertagia ostertagi, cattle (exper.), plasma pepsinogen levels, little difference between calves exhibiting clinical symptoms and loss of growth and calves without these symptoms, relevance of findings to use of pepsinogen test in diagnosis of ostertagiasis

Enzymes, Host

- Moore, M. N.; and Halton, D. W., 1977, Ztschr. Parasitenk., v. 53 (1), 115-122
Himasthla leptosoma, *Cryptocotyle lingua*, *Cercaria linearis* in *Littorina littorea*, lysosomal hydrolases in digestive cells of infected and uninfected snails

Enzymes, Host

- Moors, A., 1972, Ann. Soc. Belge Med. Trop., v. 52 (1), 9-17
Trypanosoma brucei, changes in allantoic fluid composition during development of chick embryo that influence viability of parasite, increased phosphodiesterases main causal factor for disappearance of trypanosomes during embryonic development

Enzymes, Host

- Musaev, M. A.; and Surkova, A. M., 1972, Parazitologiya, Leningrad, v. 6 (1), 11-15
Eimeria tenella-, *E. mitis*-infected chickens (exper.), changes in activity of alkaline and acid phosphatases of small intestine depend on species of coccidia, age of host, and stage of infection

Enzymes, Host

- Musaev, M. A.; and Surkova, A. M., 1974, Parazitologiya, Leningrad, v. 8 (2), 170-174
Eimeria tenella, chickens (exper.), acid and alkaline phosphatase activity of small intestinal mucosa, comparison of one infection (non-immune) vs. 3 successive infections (immune)

Enzymes, Host

- Mustaikis, B.; and Medzevicius, A., 1978, Lietuvos TSR Moks. Akad. Darbai, s. C (82), (2), 75-83
Trichocephalus suis, suckling pigs, influence of amylosubtylene on host carbohydrate metabolism

Enzymes, Host

- Nikulin, T. G.; Shpak, G. E.; and Savchenko, V. F., 1977, Veterinariia, Moskva (10), 80-81
balantidiasis, oesophagostomiasis, mixed infection in swine (exper.), changes in carboanhydrase and alkaline phosphatase activities

Enzymes, Host

- Owen, J. S.; et al., 1978, Rev. Brasil. Biol., v. 38 (4), 913-918
Schistosoma mansoni, mice, plasma and erythrocyte lipid concentrations, plasma lecithin:cholesterol acyltransferase activity

Enzymes, Host

- Pappas, P. W., 1978, J. Parasitol., v. 64 (3), 562-564
Hymenolepis diminuta-infected vs. normal rat small intestine, tryptic and protease activities

Enzymes, Host

- Platzer, E. G.; and Kassis, J. A., 1978, J. Protozool., v. 25 (4), 556-559
Plasmodium lophurae, pyridoxine kinase in trophozoites and in duckling erythrocytes, results suggest that vitamin B₆ metabolism of malaria parasites is distinct and separate from that of host erythrocytes

Enzymes, Host

- Poelvoorde, J.; and Berghen, P., 1979, Vlaams Diergeneesk. Tijdschr., v. 48 (3), 217-223
Oesophagostomum dentatum, pigs (exper.), blood plasma mineral and enzyme levels

Enzymes, Host

Poliakova-Krusteva, O.; and Krustev, L., 1972, Virchows Arch. B, Cell Path., v. 11 (4), 334-342

Fasciola hepatica-infected rabbits, enzyme-histochemical studies of pathological process in liver

Enzymes, Host

Przyjalkowski, Z.; and Malinowska, A., 1977, Acta Parasitol. Polon., v. 25 (1-10), 69-77

Trichinella spiralis-infected germfree vs. conventional mice, some metabolites and enzymes of carbohydrate metabolism in liver and small intestine

Enzymes, Host

Przyjalkowski, Z.; and Malinowska, A., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (2), 95-100

Trichinella spiralis, conventional and bi-associated (with Staphylococcus epidermidis and Escherichia coli) mice, carbohydrate metabolism in livers and intestines, metabolite levels, enzyme activities

Enzymes, Host

Ranucci, S.; and Grol-Ranucci, H., 1978, Clin. Vet., Milano, v. 101 (6), 324-333

Dicrocoelium lanceolatum, Echinococcus granulosus, sheep, changes in serum enzymes and proteins and blood bilirubin and cholesterol

Enzymes, Host

Rew, R. S.; Colglazier, M. L.; and Enzie, F. D., 1978, J. Parasitol., v. 64 (2), 290-294

Fasciola hepatica, lambs (exper.), diamfenetide, clinical and anthelmintic effects, value of serum gamma-glutamyl transpeptidase in detecting hepatobiliary damage

Enzymes, Host

Rowlands, D. ap T.; and Clampitt, R. B., 1979, Vet. Parasitol., v. 5 (2-3), 155-175

Fasciola hepatica, sheep, cattle (both exper.), bodyweight, blood and plasma analyses, emphasis on use of plasma enzyme levels to detect and monitor liver damage and to assess efficacy of diamphenethide against immature flukes

Enzymes, Host

Saad, A. A.; et al., 1977, Acta Vitaminol. et Enzymol., v. 31 (6), 179-182

Schistosoma mansoni-infected mice, β -glucuronidase activity in liver and spleen homogenates, possible causes for changes in enzyme activity

Enzymes, Host

Saad, A. A.; et al., 1977, Acta Vitaminol. et Enzymol., v. 31 (6), 183-186

Schistosoma mansoni-infected and uninfected mice, β -glucuronidase activity in whole urinary bladder tissue homogenates before and after treatment with hycanthone methane-sulphonate

Enzymes, Host

Saad, A. A.; et al., 1978, Biochem. Pharmacol., v. 27 (4), 473-474

Schistosoma mansoni-infected and normal mice treated with hycanthone, progressive and prolonged increase in β -glucuronidase activity in liver and spleen homogenates, concluded that hycanthone is hepatotoxic drug and is possibly carcinogenic in mice

Enzymes, Host

Sadigursky, C. A.; de Araujo, I. M.; and Rodrigues, L. E. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 103-108

Schistosoma mansoni, evaluation of lactic dehydrogenase activity and hepatic isoenzymes is not statistically reliable for diagnosis or follow-up of patients with hepatic lesions

Enzymes, Host

Schanzel, H.; et al., 1978, Acta Vet. Brno, v. 47 (1-2), 91-95

Trichinella spiralis, mice, guinea pigs, serum creatine-phosphokinase activity not useful for diagnosis

Enzymes, Host

Schildknecht, E. G.; and Squibb, R. L., 1979, Parasitology, v. 78 (1), 19-31

Histomonas meleagridis in turkeys, effects of vitamins A, E, and K (alone and in combination with ipronidazole) on performance and on plasma enzymes, plasma enzyme levels correlated well with progressive pathological changes

Enzymes, Host

Sharma, O. P.; et al., 1978, Indian J. Exper. Biol., v. 16 (6), 665-667

Plasmodium berghei, mice, xanthine oxidase activity in liver

Enzymes, Host

Shayo, M. E.; and Benz, G. W., 1979, Vet. Parasitol., v. 5 (4), 353-364

Trichostrongylus colubriformis-infected calves (exper.), histopathologic and enzyme histochemical changes in small intestine

Enzymes, Host

Shishova-Kasatochkina, O. A.; and Dubovskaia, A. Ia., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 140-151

comparison of mechanisms of formation of hydrolytic enzymes in helminth and mammalian intestines, review

Enzymes, Host

Smith, T. M.; and Brown, J. N., 1978, Comp. Biochem. and Physiol., v. 59B (1), 51-53

Schistosoma mansoni, S. japonicum, absence of tyrosine aminotransferase (TAT) in adult flukes, effect of 10 week infections on TAT activity in livers of female mice

Enzymes, Host

Sullivan, T. J.; Parker, K. L.; and Parker, C. W., 1973, Research Commun. Chem. Path. and Pharmacol., v. 6 (2), 709-717

Dirofilaria immitis incubated in dog blood, ability of antibody-enzyme conjugates to specifically kill microfilariae, conjugates shown to attach to parasite surfaces, attachment inhibited by soluble D. immitis antigens indicating that immunologically specific reaction involved

Enzymes, Host

Swarup-Mitra, S.; Chowdhury, A. K. R.; and Sarkar, M., 1979, Indian J. Med. Research, v. 69, 571-576

Leishman[ia] donovan[i], human, erythrocytic enzymes inhibited, haematological changes, normalization following sodium antimony gluconate therapy

Enzymes, Host

- Tandon, R. S.; and Chandra, S., 1977, Ztschr. Parasitenk., v. 52 (3), 195-198
trypanosome-infected fish, reduced serum alkaline phosphatase levels and lowered metabolic activity

Enzymes, Host

- Telles de Jesus Filho, M.; and Miraglia, T., 1977, Acta Histochem., v. 59 (1), 160-167
Sarcocystis fusiformis cysts in ox heart, histochemical (primarily histoenzymologic) observations, implications for parasite metabolism, no inflammatory reactions found around cysts and enzymatic reactivity of muscle fibers near to cysts was not different from normal fibers

Enzymes, Host

- Teng, Y. S.; Palmieri, J. R.; and Sullivan, J. T., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 151-152
Cyathocotyle malayi-infected Filopaludina sumatrensis, activity of selected enzymes in digestive gland and hemolymph

Enzymes, Host

- Van Ros, G.; et al., 1972, Ann. Soc. Belge Med. Trop., v. 52 (6), 515-530
Plasmodium berghei berghei, inbred mouse strain partially resistant to infection, surveillance of hemoglobins and glucose-6-phosphate-dehydrogenase changes from 12th day of gestation to 3rd day after birth, no correlations with Plasmodium resistance

Enzymes, Host

- Wright, C. A.; Rollinson, D.; and Goll, P. H., 1979, Parasitology, v. 79 (1), 95-105
Bulinus senegalensis and associated parasites, isoelectric focusing studies on enzymes, differences in prevalence and variety of infections in 7 host populations: south bank of Gambia River

Enzymes, Host

- Wright, I. G., 1979, Gen. Pharmacol., v. 10 (4), 319-325
Babesia, Plasmodium, Trypanosoma, kallikrein-kinin system, mechanisms of activation (parasite enzymes, immune complexes), role in hypotensive shock syndrome of infected animals, review

Enzymes, Host

- Wright, I. G.; and Boreham, P. F. L., 1977, Biochem. Pharmacol., v. 26 (5), 417-423
Trypanosoma brucei, rabbits, chronic infections, urine volume, urinary kallikrein, effects of inhibitors on properties, excretion of elevated levels of urinary kallikrein considered to be due to glomerular damage and possibly to activation of plasma kallikrein by parasite and by parasite/antibody complexes

Enzymes, Host

- Wright, I. G.; and Goodger, B. V., 1977, Ztschr. Parasitenk., v. 53 (1), 63-73
Babesia bigemina, calves, plasma studies for changes in coagulation system and kallikrein levels; comparisons with B. argentina bovine infections discussed

Enzymes, Host

- Zajicek, D.; et al., 1977, Vet. Med., Praha, v. 50, v. 22 (2), 99-108
Paramphistomum sp., lambs (exper.), pathogenic effect on blood values, amino-transferases, alkaline phosphatase, minerals in blood serum

Enzymes, Host

- Zeitoun, M. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 631-636
schistosomiasis, children in various clinical stages of hepatic fibrosis before and after treatment, serum and urinary RNase activity, possible use in evaluating early metabolic disturbances and assessing severity of cases, comparison with serum GOT, GPT, and AP

Enzymes, Host

- Zharikov, I. S.; et al., 1975, Vet. Nauka--Proizvod., Trudy, Minsk, v. 13, 104-105
paramphistomiasis, calves, increased activity of malate and succinate dehydrogenase in blood; changes apparently more from excretory, secretory and metabolic products than from mechanical influence of parasite

Enzymes, Parasite

- Ailiarova, S. T., 1972, Parazitologiya, Leningrad, v. 6 (1), 19-21
Entamoeba histolytica, hyaluronidase activity of 10 strains compared, activity reduced but not lost by long laboratory cultivation, does not depend on associated microflora but on amoebae themselves

Enzymes, Parasite

- Al-Taqi, M.; and Evans, D. A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 56-65
Leishmania spp., characterization by isoenzyme electrophoresis, comparison of stocks from Kuwait with stocks from other parts of Old and New Worlds

Enzymes, Parasite

- Amos, W. B.; et al., 1979, J. Cell Sc., v. 35, 139-164
Trichomonas spp. from termites, costa: bending waves, birefringence, structure, composition (proteins, ATPase), results indicate type of motile system distinct from any hitherto described

Enzymes, Parasite

- Anwar, N.; and Ghatak, S., 1977, Ztschr. Parasitenk., v. 54 (1), 69-78
Setaria cervi, phosphoglucose isomerase, purification and properties

Enzymes, Parasite

- Anya, A. O.; and Umezurike, G. M., 1978, Parasitology, v. 76 (1), 21-27
Rhabdias bufonis, respiration and carbohydrate energy metabolism

Enzymes, Parasite

- Aoki, T.; and Oya, H., 1979, Comp. Biochem. and Physiol., v. 63B (4), 511-515
Schistosoma mansoni, demonstration of glutamine-dependent carbamoyl-phosphate synthetase, aspartate carbamoyltransferase, and dihydro-orotase, results suggest the synthetase plays key role in control of pyrimidine biosynthesis de novo

Enzymes, Parasite

- Arakcheeva, S. G.; Zubitskaia, M. A.; and Isaeva, Kh. B., 1976, Med. Parazitol. i Parazitarn. Bolezni, v. 45 (1), 81-84
Hymenolepis nana, mice, comparative histochemical study of nucleic acids, carbohydrates, and alkaline phosphatase in parasite and in host

- Enzymes, Parasite
Asch, H. L.; and Dresden, M. H., 1979, J. Parasitol., v. 65 (4), 543-549
Schistosoma mansoni, egg extracts, acidic thiol proteinase activity
- Enzymes, Parasite
Avila, J. L.; et al., 1979, J. Protozool., v. 26 (2), 304-311
Trypanosoma cruzi, acid and neutral hydrolases, characterization and assay
- Enzymes, Parasite
Baker, J. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 483-491
Trypanosoma (Schizotrypanum) spp. from Microchiroptera, characterization by DNA buoyant densities and by electrophoretic patterns of 6 isoenzymes
- Enzymes, Parasite
Barrett, J., 1978, Parasitology, v. 76 (3), 269-275
Fasciola hepatica adults, activation of succinate dehydrogenase, significance of results in regulation of tricarboxylic acid cycle in parasitic helminths
- Enzymes, Parasite
Barrett, J., 1978, Ztschr. Parasitenk., v. 55 (3), 223-227
Ascaris lumbricoides, muscle tissue, pyruvate and citrate metabolism
- Enzymes, Parasite
Barrett, J.; Coles, G. C.; and Simpkin, K. G., 1978, Internat. J. Parasitol., v. 8 (2), 117-123
Fasciola hepatica adults, activities and intracellular distribution of enzymes of acetate and propionate production, possible pathways of acetate and propionate production
- Enzymes, Parasite
Batson, B. S., 1979, Internat. J. Parasitol., v. 9 (6), 495-503
Gastromermis boophthorae, body wall, ultrastructural changes during life cycle, alkaline phosphatase activity, relationship to transcuticular uptake of nutrients
- Enzymes, Parasite
Beaver, J. A.; and Dobson, C., 1978, Internat. J. Parasitol., v. 8 (1), 9-13
Angiostrongylus cantonensis, parasite acetylcholinesterase levels during development and migration in rats, relationship to host immunological response
- Enzymes, Parasite
Beddok, R. A.; and Mansour, T. E., 1979, Biochem. Pharmacol., v. 28 (24), 3689-3692
Fasciola hepatica, serotonin-activated adenylate cyclase, antagonism by levorphanol and dextrorphan
- Enzymes, Parasite
Beier, T. V.; Siim, J. C.; and Hutchison, W. M., 1977, Tsitologii, v. 19 (11), 1261-1265
Toxoplasma gondii, cyst stage, enzymes of oxidation
- Enzymes, Parasite
Beis, I.; and Barrett, J., 1979, Internat. J. Parasitol., v. 9 (5), 465-468
Schistocephalus solidus, activated and non-activated plerocercoids, contents of adenine nucleotides and glycolytic and tricarboxylic acid cycle intermediates
- Enzymes, Parasite
Bennett, J. L.; Seed, J. L.; and Boff, M., 1978, J. Parasitol., v. 64 (5), 941-944
Schistosoma mansoni, development of rapid, simple, and sensitive fluorescence histochemical method for detecting phenol oxidase activity in female worms, results further demonstrate critical role of phenol oxidase in egg production
- Enzymes, Parasite
Berdyeva, G. T.; and Driuchenko, E. A., 1975, Parazitologiya, Leningrad, v. 9 (1), 28-30
Ascaris suum, Ascaridia galli, Fasciola hepatica, histidine metabolism, determination of histamine and histidine-ammonia-lyase
- Enzymes, Parasite
Beverley-Burton, M., 1978, Environment. Biol. Fish., v. 3 (4), 369-377
Anisakis simplex in Salmo salar, parasite population genetics (acid phosphatase phenotypes), use as biological indicators of host stocks: Atlantic Ocean
- Enzymes, Parasite
Binnington, K. C., 1978, Internat. J. Parasitol., v. 8 (2), 97-115
Boophilus microplus, salivary glands during attachment and feeding, gross anatomy, number of cell types and changes in morphology during development, histochemistry, enzymes, physiological functions of cell secretions
- Enzymes, Parasite
Boczon, K.; and Michejda, J. W., 1978, Internat. J. Parasitol., v. 8 (6), 507-513
Trichinella spiralis, larvae, respiratory enzymes in mitochondria, results suggest conventional respiratory pathway may operate
- Enzymes, Parasite
Bogitsh, B. J.; and Carter, O. S., 1979, Tr. Am. Micr. Soc., v. 98 (3), 454-460
Schistosoma mansoni schistosomules grown in vivo and in vitro, transmission and scanning electron microscopic and cytochemical studies, tegumental changes following penetration, onset of phosphatase activity
- Enzymes, Parasite
Bongertz, V.; and Hungerer, K. D., 1978, Exper. Parasitol., v. 45 (1), 8-18
Trypanosoma cruzi, protease, isolation and characterization
- Enzymes, Parasite
Boulard, C.; and Garrone, R., 1978, Comp. Biochem. and Physiol., v. 59 (3B), 251-255
Hypoderma lineatum, collagenolytic enzyme from larvae, characterization
- Enzymes, Parasite
Bout, D.; et al., 1978, Immunochemistry, v. 15 (9), 633-638
Schistosoma mansoni, malate dehydrogenase (MDH), purification, immunochemical and biological characterization, mice immunized with purified MDH exhibited significant decrease of worm burden
- Enzymes, Parasite
Brazil, R. P., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 289-291
Leishmania spp., variation in electrophoretic mobility of the enzyme phosphoglucosylase in the parasite and its application to the differentiation of leishmanial strains

- Enzymes, Parasite
Bull, M.; and Sara, G. J., 1976, J. Med. Entomol., v. 13 (2), 137-142
Aponomma hydrosauri, esterase polymorphism controlled by 2 alleles at single locus, geographical distribution of allele frequencies, implications for population structure: upper Yorke Peninsula and Murray Mallee district, South Australia
- Enzymes, Parasite
Camargo, E. P.; et al., 1978, Exper. Parasitol., v. 46 (2), 141-144
Trypanosoma, Leishmania, and Leptomonas spp., enzymes of ornithine-arginine metabolism, existence of genus-specific enzyme patterns which may serve as biochemical markers in classification of Trypanosomatidae
- Enzymes, Parasite
Camargo, E. P.; Itow, S.; and Alfieri, S. C., [1979], J. Parasitol., v. 64 (6), 1978, 1120-1121
Trypanosomatidae, 18 spp. of 6 genera, proteolytic activities in cell extracts
- Enzymes, Parasite
Cannata, J. J. B.; et al., 1979, Biochem. J., v. 184 (2), 409-419
Trypanosoma cruzi epimastigotes, 2 forms of 'malic' enzyme, different kinetic and regulatory properties
- Enzymes, Parasite
Carter, R., 1978, Parasitology, v. 76 (3), 241-267
Plasmodium berghei, P. yoelii, P. vinckei, P. chabaudi, and their subspecies, electrophoretic variation of enzymes glucose phosphate isomerase, 6-phosphogluconate dehydrogenase, lactate dehydrogenase, and glutamate dehydrogenase, detailed description of technique, genetic and taxonomic implications, key for identification of murine plasmodia by enzyme type
- Enzymes, Parasite
de Carvalho, T. U.; Souto-Padron, T.; and de Souza, W., 1979, Exper. Parasitol., v. 47 (3), 297-304
Herpetomonas samuelpessoai, electron-dense granules, electron microscopy and cytochemistry (peroxidase activity, basic proteins, acid phosphatase)
- Enzymes, Parasite
Cazzulo, J. J.; et al., 1979, Comp. Biochem. and Physiol., v. 64B (1), 129-131
Trypanosoma cruzi, NAD-linked glutamate dehydrogenase, partial purification and some properties
- Enzymes, Parasite
Chance, M. L.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 533-542
Leishmania, identification of 68 strains from Ethiopian zoogeographical region on basis of biochemical and serological taxonomy (nuclear and kinetoplast DNA buoyant density, excreted factor serotypes, enzyme variant types), epidemiological implications
- Enzymes, Parasite
Chernin, J.; and Tilleray, V. J., 1979, J. Helminth, v. 53 (2), 127-129
Taenia crassiceps in mice suffering from obstructive jaundice, bilirubin extracted from metacestodes, reduced activity of β -D-glucuronidase in pigmented vs. normal parasites
- Enzymes, Parasite
Chopra, A. K.; and Premvati, G., 1978, Geobios, v. 5 (4), 145-148
Haemonchus contortus, Oesophagostomum columbianum, Trichuris ovis, effect of chemicals on non-specific phosphomonoesterase activity
- Enzymes, Parasite
Coleman, M. B.; et al., 1979, J. Parasitol., v. 65 (2), 222-225
Plasmodium berghei, isolation of parasites by hemolysin lysis of infected erythrocytes, evidence for parasite-specific hexokinase
- Enzymes, Parasite
Conway-Jones, P. B.; and Rothman A. H., 1978, Exper. Parasitol., v. 46 (2), 152-156
Hymenolepis microstoma, adenyl cyclase, ultrastructural localization in tegument
- Enzymes, Parasite
Cursons, R. T. M.; Brown, T. J.; and Keys, E. A., 1978, J. Parasitol., v. 64 (4), 744-745
Naegleria, Acanthamoeba, pathogenic vs. non-pathogenic strains, differences in level of production of phospholipase A may explain differences in invasiveness and virulence, likely that secretion of enzyme constitutes initial steps whereby host tissue is prepared for endocytosis by these amebae
- Enzymes, Parasite
Davies, C., 1979, Internat. J. Parasitol., v. 9 (6), 553-564
Microphallus similis metacercariae and adults, forebody glands and surface features, scanning and transmission electron microscopy, cytochemistry, ultracytochemistry
- Enzymes, Parasite
Davydov, O. N.; and Kosenko, L. Ia., 1972, Parazitologiya, Leningrad, v. 6 (3), 269-273
Ligula intestinalis, amylase in surface layer of plerocercoids and in media in which they were maintained, findings suggest capability of membrane (contact) digestion and absorption of food from host
- Enzymes, Parasite
Deelder, A. M.; Reinders, P. N.; and Rotmans, J. P., 1977, Acta Leidensia, v. 45, 91-103
Schistosoma mansoni, purification of acidic protease, possible use as antigen in serological tests and in development of assay for detection of enzyme as circulating antigen
- Enzymes, Parasite
Dev, B.; and Mishra, G. C., 1977, Ztschr. Parasitenk., v. 52 (1), 97-101
Poecilobdella granulosa, decerebration leads to activation of gastric phosphatases and inhibition of intestinal phosphatases; correlation with metabolic metameric control
- Enzymes, Parasite
Dickinson, J. P.; and Johnson, A. D., 1978, Comp. Biochem. and Physiol., v. 60B (3), 277-279
Alaria marciae adults, electrophoretic separation of esterase isoenzymes

Enzymes, Parasite

- Docampo, R.; de Boiso, J. F.; and Stoppani, A. O. M., 1978, *Biochim. et Biophys. Acta*, v. 502 (3), 466-476
Trypanosoma cruzi, tricarboxylic acid cycle operation at kinetoplastmitochondrion complex: effect of ethidium bromide on growth and cytochrome content, substrate oxidation by dyskinetoplastic and cytochrome-deficient epimastigotes

Enzymes, Parasite

- Doi, M.; et al., 1976, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 25 (4), 235-240
Trichomonas foetus, T. vaginalis, malate dehydrogenase and malic enzyme, comparative activities in centrifugal cell fractions

Enzymes, Parasite

- Douch, P. G. C., 1978, *Xenobiotica*, v. 8 (3), 177-182
Ascaris lumbricoides var. suum, *Moniezia expansa*, acetylsalicylic acid O-deacetylases, localization and some properties

Enzymes, Parasite

- Douch, P. G. C.; and Buchanan, L. L., 1978, *Xenobiotica*, v. 8 (3), 171-176
Ascaris suum, *Moniezia expansa*, metabolism of xenobiotics by glutathione (GSH) conjugation, properties of GSH-S-aryltransferase, conjugations with GSH unlikely to be of importance in anthelmintic metabolism

Enzymes, Parasite

- Douch, P. G. C.; and Buchanan, L. L., 1979, *Xenobiotica*, v. 9 (11), 675-679
Moniezia expansa, *Ascaris suum*, sulphoxidases and sulphoxide reductases, oxidation and reduction of anthelmintics

Enzymes, Parasite

- Dresden, M. H.; and Deelder, A. M., 1979, *Exper. Parasitol.*, v. 48 (2), 190-197
Schistosoma mansoni, thiol proteinase properties of adult worm 'hemoglobinase'

Enzymes, Parasite

- Dube, D. K.; et al., 1979, *Biochim. et Biophys. Acta*, v. 561 (1), 10-16
Trypanosoma brucei, detection and characterization of DNA polymerase

Enzymes, Parasite

- Dubovskaia, A. Ia., 1973, *Parazitologiya*, Leningrad, v. 7 (2), 154-159
 cestodes from different classes of vertebrate hosts, proteolytic activity, enzymatic activity of parasite is adapted to intensity of host's metabolism

Enzymes, Parasite

- Dzhemileva, T.; Stoianova, O.; and Popov, K., 1976, *Stomatologiya*, Sofia, v. 58 (3), 165-169
Entamoeba gingivalis, incidence in young people with normal gingiva, or with chronic catarrhal or experimental gingivitis, possible significance of parasite enzymes in pathogenicity

Enzymes, Parasite

- Elpidina, E. N.; Zaitseva, G. N.; and Krashe-ninnikov, I. A., 1979, *Biokhimiya*, v. 44 (10), 1830-1841
Trypanosoma lewisi, histones from nuclei characterized in terms of chemical composition and RNA-polymerase activity

Enzymes, Parasite

- Enigk, K.; and Dey-Hazra, A., 1978, *J. Helminth.*, v. 52 (1), 83-89
 gastrointestinal nematodes, piglets, disaccharidase activity in host intestinal contents and in nematodes themselves

Enzymes, Parasite

- Enriquez, G. L.; Ebert, F.; and Muehlfordt, H., 1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 315-318
Leishmania donovani, ultrastructural verification of presence of cytochrome type of respiration, localization of cytochrome oxidase and peroxidase activity in amastigotes by means of the diaminobenzidine technique

Enzymes, Parasite

- Ernst, S. C., 1976, *Rice Univ. Studies*, v. 62 (4), 81-95
Schistosoma mansoni, alkaline phosphatase activity, biochemical and cytochemical studies, tegumental localization suggests that invaginations of tegument represent surface compartments that would facilitate digestive absorptive activity of this membrane, localization of nonspecific alkaline phosphatase activity in tegument but not in esophagus or cecum may reflect regional differences in function

Enzymes, Parasite

- Ertel, J. C.; and Isseroff, H., 1976, *Rice Univ. Studies*, v. 62 (4), 97-109
Fasciola hepatica, ornithine- δ -transaminase (OTA), partial purification and characterization, concluded that high specific activity of OTA and its high tolerance for α -ketoglutarate result in high levels of proline formation

Enzymes, Parasite

- Farland, W. H.; and MacInnis, A. J., 1978, *J. Parasitol.*, v. 64 (3), 564-565
 in vitro thymidine kinase activity present in *Hymenolepis diminuta* and *Moniliformis dubius* but apparently lacking in *Ascaris lumbricoides*

Enzymes, Parasite

- Ferrell, J. E., jr.; et al., 1979, *Molec. Pharm.*, v. 16 (2), 556-568
 structure/activity studies of flavonoids as inhibitors of *Fasciola hepatica* cyclic AMP phosphodiesterase and relationship to quantum chemical indices

Enzymes, Parasite

- Figueiredo, E. N.; et al., 1978, *J. Protozool.*, v. 25 (4), 546-549
Crithidia spp., enzymes of ornithine-arginine metabolism, existence of common enzymatic pattern for species of this genus

Enzymes, Parasite

- Fioravanti, C. F.; and Saz, H. J., 1978, *J. Exper. Zool.*, v. 206 (2), 167-177
Spirometra mansonoides adults, "malic" enzyme, fumarate reductase, and transhydrogenase systems in mitochondria

Enzymes, Parasite

- Foster, L. A.; and Hall, J. E., 1978, *J. Parasitol.*, v. 64 (2), 376-377
 location of gelatinase in several different types of trematode cercariae

Enzymes, Parasite

- Frandsen, J. C.; 1978, Comp. Biochem. and Physiol., v. 60B (3), 303-307
Eimeria stiedai, glucose 6-phosphate dehydrogenase, further characterization

Enzymes, Parasite

- Frasch, A. C. C.; et al., 1978, Comp. Biochem. and Physiol., v. 60B (3), 271-275
Trypanosoma cruzi, adenosine triphosphatase activities

Enzymes, Parasite

- Frasch, A. C. C.; Cazzulo, J. J.; and Stoppani, A. O. M., 1978, Comp. Biochem. and Physiol., v. 61B (2), 207-212
Trypanosoma cruzi, Mg²⁺-activated adenosine triphosphatase, solubilization and some properties

Enzymes, Parasite

- Frapp, P. J.; and McSheehy, M. A., 1969, South African J. Med. Sc., v. 34 (2), 35-37
Schistosoma mansoni, adults, separation of several α -naphthyl acetate esterase isoenzymes by thin layer polyacrylamide gel electrophoresis, enzyme patterns differ between sexes

Enzymes, Parasite

- Galinari, S.; and Camargo, E. P., 1978, Exper. Parasitol., v. 46 (2), 277-282
 trypanosomatid protozoa, 16 spp., survey for acetylornithinase and ornithine acetyltransferase, metabolic and nutritional implications

Enzymes, Parasite

- Galinari, S.; and Camargo, E. P., 1979, J. Parasitol., v. 65 (1), 88
Blastocystis hominis, symbiont-harboring wild strain has complete set of urea cycle enzymes and acetylornithinase, corresponding aposymbiotic strain lacks some of these enzymes

Enzymes, Parasite

- Garcia-Tamayo, J.; Nunez-Montiel, J. T.; and de Garcia, H. P., 1978, Acta Cytol., v. 22 (6), 447-455
Trichomonas vaginalis in human cervical and vaginal exudates, fine structure and acid phosphatase activity, relationship with other cellular elements including phagocytosis and digestion of epithelial cells and bacteria and phagocytosis by macrophages

Enzymes, Parasite

- Gerasimov, A. M.; Kasatkina, N. V.; and Darmova, E. N., 1979, Zhurnal Evoliuts., Biokhim. i Fiziol., v. 15 (2), 126-130
Ascaris lumbricoides, different developmental stages, antioxidant protective enzymes, relationships to existence in low and changing oxygen tension

Enzymes, Parasite

- Gibson, W. C.; et al., 1978, Comp. Biochem. and Physiol., v. 60B (2), 137-142
Trypanosoma evansi, 10 isolates compared, isoenzymes, soluble proteins, polypeptides, free amino acids (starch gel electrophoresis, isoelectric focusing, SDS polyacrylamide electrophoresis, amino acid analysis)

Enzymes, Parasite

- Gibson, W.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (3), 335-345
Trypanosoma brucei gambiense, identification in Liberian pigs and dogs by isoenzyme electrophoresis and by resistance to human plasma, peptidase polymorphism demonstrated; stock from 2 pigs resistant to human plasma and contained enzyme marker previously found only in man, evidence that pigs are reservoirs for human infection in West Africa

Enzymes, Parasite

- Goil, M. M., 1978, Ztschr. Parasitenk., v. 55 (1), 59-62
Paramphistomum explanatum, effect of some -SH and other reagents on aspartate aminotransferase and L-alanine aminotransferase

Enzymes, Parasite

- Goil, M. M.; and Harpur, R. P., 1978, Parasitology, v. 77 (1), 97-102
Ascaris suum, aldose reductase and sorbitol dehydrogenase in muscle

Enzymes, Parasite

- Goil, M. M.; and Harpur, R. P., 1978, Ztschr. Parasitenk., v. 57 (2), 117-120
Phocanema decipiens, sorbitol dehydrogenase isolated and characterized

Enzymes, Parasite

- Goil, M. M.; and Harpur, R. P., 1979, Ztschr. Parasitenk., v. 60 (2), 177-183
Phocanema decipiens, comparison of non-specific acid phosphomonoesterase activity in larva with that of infected muscle of its host (*Gadus morhua*)

Enzymes, Parasite

- Goldberg, M.; Flescher, E.; and Lengy, J., 1979, Exper. Parasitol., v. 47 (3), 333-341
Schistosoma mansoni, ornithine- δ -transaminase, partial purification and properties

Enzymes, Parasite

- Goncalves de Lima, V. M. Q.; Roitman, I.; and Kilgour, V., 1979, J. Protozool., v. 26 (4), 648-652
 trypanosomatids, 7 species distinguished by electrophoretic mobilities of some isoenzymes

Enzymes, Parasite

- Grillo Torrado, J. M.; and Perez Arrieta, A., 1977, Rev. Med. Vet., Buenos Aires, v. 58 (2), 101-102, 105
Boophilus microplus, new strain 22, strain G, phosphorus-resistance to various acaricides compared; acetylcholinesterase activity of strain 22 was markedly less than that of strain G

Enzymes, Parasite

- Gupta, S. P.; and Gupta, R. C., 1977, Ztschr. Parasitenk., v. 54 (1), 89-94
Ganeo tigrinum from *Rana tigrina*, acid and alkaline phosphatase activity, histochemical localization in various tissues

Enzymes, Parasite

- Gutteridge, W. E.; Dave, D.; and Richards, W. H. G., 1979, Biochim. et Biophys. Acta, v. 582 (3), 390-401
 Kinetoplastida spp., Plasmodium spp., conversion of dihydroorotate to orotate, mechanism of reaction different in these 2 groups of protozoa, possible target of chemotherapeutic attack

Enzymes, Parasite

- Guttowa, A.; and Moczon, T., 1974, *Acta Parasitol. Polon.*, v. 22 (1-11), 1-7
Diphyllbothrium latum, *Ligula intestinalis*, *Triaenophorus nodulosus*, coracidia, oxidoreductase histochemistry

Enzymes, Parasite

- Hannon, R. H.; and Parr, C. W., 1978, *Comp. Biochem. and Physiol.*, v. 60B (2), 177-181
Trypanosoma brucei, *T. vivax*, bloodstream forms, phosphoglucose isomerases, partial purification and characterization, comparison of the two species, many similarities in kinetic properties but differences in thermal stability and in isoelectric point

Enzymes, Parasite

- Hayashi, E.; et al., 1976, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 25 (4), 324-327
Ascaris lumbricoides suum muscle and ovary mitochondria, hydroperoxidase activities

Enzymes, Parasite

- Healy, J. A., 1979, *Parasitology*, v. 78 (1), 7-17
Ixodes ricinus, samples from several Irish localities and from spring and autumn ticks collected in one area, detection by electrophoresis of very high allelic variation at locus coding for phosphoglucose mutase, allele frequency patterns, both spatial and temporal genetic differentiation exist, possible use of this polymorphism in population and taxonomic studies, possible adaptive significance of polymorphism in autecology of parasite

Enzymes, Parasite

- Healy, J. A., 1979, *Genetica*, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Enzymes, Parasite

- Hermoso, R.; and Monteoliva, M., 1978, *Rev. Iber. Parasitol.*, v. 38 (3-4), 585-590
Ascaris lumbricoides var. suum, isoenzymes of lactate dehydrogenase, cellulose acetate electrophoresis

Enzymes, Parasite

- Higa, A. I.; de Cazzulo, B. M. F.; and Cazzulo, J. J., 1979, *J. Gen. Microbiol.*, v. 113 (2), 429-432
Crithidia fasciculata, NAD-specific glutamate dehydrogenase, partial purification and some properties

Enzymes, Parasite

- Hollis, P. D., 1979, *J. Parasitol.*, v. 65 (3), 461-463
Porocephalus crotali, alkaline phosphatase activity, histochemical distribution

Enzymes, Parasite

- Howells, R. E.; and Bafort, J. M., 1970, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 50 (5), 587-594
Plasmodium berghei berghei, pre-erythrocytic schizonts in liver of *Thamnomys surdaster*, presence of various respiratory enzymes demonstrated, light microscope histochemical techniques

Enzymes, Parasite

- Iamov, V. Z.; and Kolesnik, N. V., 1978, *Veterinariia*, Moskva (11), 68-70
Hypoderma bovis larval stages, esterases, molecular forms, effect of inhibitors, including chlorophos

Enzymes, Parasite

- Jaffe, J. J.; and Chrin, L. R., 1978, *J. Parasitol.*, v. 64 (4), 661-668
Brugia pahangi-infected and normal *Aedes aegypti*, methylenetetrahydrofolate dehydrogenase (MTHFD) and reductase (MTHFR) activity, change in folate metabolism with advanced infections; suramin inhibited MTHFR activity but not MTHFD; MTHFR activity detected in crude extracts of adult parasites differed from that in mosquitoes

Enzymes, Parasite

- Jones, B. R.; Smith, B. F.; and LeFlore, W. B., 1979, *Cytobios* (95-96), v. 24, 195-209
Hydatigera taeniaeformis cysticercus, alkaline phosphatase activity, ultrastructural localization in tegument

Enzymes, Parasite

- Juan, S. M.; Cazzulo, J. J.; and Segura, E. L., 1976, *Acta Physiol. Latinoam.*, v. 26 (5), 424-426 [Letter]
Trypanosoma cruzi, presence and properties of pyruvate kinase

Enzymes, Parasite

- Juan, S. M.; Cazzulo, J. J.; and Segura, E. L., 1979, *Comp. Biochem. and Physiol.*, v. 63B (4), 531-535
Trypanosoma cruzi, inhibition of NADP-linked glutamate dehydrogenase by sulfhydryl reagents

Enzymes, Parasite

- Juan, S. M.; Segura, E. L.; and Cazzulo, J. J., 1978, *Internat. J. Biochem.*, v. 9 (6), 395-400
Trypanosoma cruzi, NADP-linked glutamate dehydrogenase, purification and some properties

Enzymes, Parasite

- Juan, S. M.; Segura, E. L.; and Cazzulo, J. J., 1979, *Experientia*, v. 35 (9), 1139-1140
Trypanosoma cruzi, NADP-linked glutamate dehydrogenase, inhibition by silver nitrate

Enzymes, Parasite

- Juhász, S., 1979, *Acta Vet.*, Budapest, v. 27 (1-2), 1977-1979, 83-87
Ascaris suum, females, proteolytic enzymes and enzyme inhibitors, distribution in oesophagus, midgut, and hindgut; interaction of host pancreatic trypsin and chymotrypsin with parasite proteolytic enzymes, in vitro

- Enzymes, Parasite
 Juhasz, S., 1979, Acta Vet., Budapest, v. 27 (3), 225-231
Ascaris suum gut content activated host pancreatic amylase and lipase in vitro, activation unrelated to parasite gut protease system
- Enzymes, Parasite
 Juhasz, S.; and Matskasi, I., 1979, Acta Vet., Budapest, v. 27 (1-2), 1977-1979, 93-97
Ascaris suum, females, in vitro, trypsin inactivated by proteases and intestinal trypsin inhibitor, chymotrypsin inactivated by intestinal chymotrypsin inhibitor; proteolytic enzyme inhibitors released through body surface had minor part in enzyme inactivation
- Enzymes, Parasite
 Juhasz, S.; and Nemeth, I., 1979, Acta Vet., Budapest, v. 27 (3), 217-224
Ascaris suum, N-benzoyl-L-tyrosine-ethyl ester-splitting proteolytic enzyme from intestine, chymotrypsin inhibitors from intestine, cuticle, and in vitro maintenance medium, estimation of molecular weights by gel chromatography
- Enzymes, Parasite
 Kan, S. C.; and Siddiqui, W. A., 1979, J. Protozool., v. 26 (4), 660-664
Plasmodium falciparum, comparison of dihydrofolate reductase from parasite and from *Aotus trivirgatus*
- Enzymes, Parasite
 Kidder, G. W.; and Nolan, L. L., 1979, Proc. National Acad. Sc., v. 76 (8), 3670-3672
Crithidia fasciculata, *Leishmania* spp., adenine aminohydrolase, occurrence and possible significance
- Enzymes, Parasite
 Kidder, G. W.; Nolan, L. L.; and Dewey, V. C., 1979, J. Parasitol., v. 65 (4), 520-525
Crithidia fasciculata, purine phosphoribosyltransferases, identification, some properties
- Enzymes, Parasite
 Klochkova, V. I.; Vykhestiuk, N. P.; and Burenina, E. A., 1978, Zhurnal Evoliuts. Biohim. i Fiziol., v. 14 (6), 533-537
Eurytrema pancreaticum, glycolytic pathways
- Enzymes, Parasite
 Knowles, W. J.; and Oaks, J. A., 1979, J. Parasitol., v. 65 (5), 715-731
Hymenolepis diminuta, brush border plasma membrane, isolation and partial biochemical characterization
- Enzymes, Parasite
 Kobayashi, M.; et al., 1978, Internat. J. Parasitol., v. 8 (6), 471-477
Paragonimus ohirai, *Clonorchis sinensis*, adults, detection of carbamoyl phosphate synthetase, its catalytic and regulatory properties, some other enzyme activities of pyrimidine nucleotide biosynthesis, actual operation of de novo pyrimidine biosynthetic pathway
- Enzymes, Parasite
 Koehler, P.; Bryant, C.; and Behm, C. A., 1978, Internat. J. Parasitol., v. 8 (5), 399-404
Fasciola hepatica, ATP synthesis in succinate decarboxylase system from mitochondria, inhibition in vitro by mebendazole and a soluble derivative of cambendazole
- Enzymes, Parasite
 Koenigk, E., 1978, Tropenmed. u. Parasitol., v. 29 (4), 435-438
Leishmania tropica promastigotes, purine nucleotide metabolism, inhibitory effect of allopurinol and analogues of purine nucleosides, possible mode of action of growth inhibition by allopurinol
- Enzymes, Parasite
 Koenigk, E.; and Abdel Rasoul, S., 1978, Tropenmed. u. Parasitol., v. 29 (3), 319-322
Leishmania tropica, promastigotes, sequence of adenosine 5'-monophosphate catabolizing reactions; adenine deaminase partially purified and characterized
- Enzymes, Parasite
 Koerting, W.; and Barrett, J., 1978, Ztschr. Parasitenk., v. 57 (3), 243-246
Ligula intestinalis, no evidence for functional β -oxidation sequence in plerocercoids
- Enzymes, Parasite
 Komuniecki, R.; Komuniecki, P. R.; and Saz, H. J., 1979, Biochim. et Biophys. Acta, v. 571 (1), 1-11
Ascaris lumbricoides var. *suum*, pyruvate dehydrogenase complex, purification and properties
- Enzymes, Parasite
 Komuniecki, R.; and Saz, H. J., 1979, Arch. Biochem. and Biophys., v. 196 (1), 239-247
Ascaris, purification of lipoamide dehydrogenase from muscle mitochondria and its relationship to NADH:NAD⁺ transhydrogenase activity
- Enzymes, Parasite
 Koshkina, L. A., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 64-69
Ascaridia galli, ATP-ase, histochemical localization in cutaneous-muscular tissue, optimal conditions for activity, effect of host immunity on activity
- Enzymes, Parasite
 Koszalka, G. W.; and Krenitsky, T. A., 1979, J. Biol. Chem., v. 254 (17), 8185-8193
Leishmania donovani promastigotes, 3 nucleoside hydrolases, separation and purification, catalytic and physical properties
- Enzymes, Parasite
 Krvavica, S.; Francetic, D.; and Tofant, A., 1977, Vet. Arhiv, Zagreb, v. 47 (2), 87-94
Metastrongylus apri, presence of "citrate cleavage" enzyme and pathway
- Enzymes, Parasite
 Kuo, M., 1979, J. Chinese Soc. Vet. Sc., v. 5 (1), 9-18
Hymenolepis diminuta, hydrolysis and transport of nucleotides
- Enzymes, Parasite
 Landsperger, W. J.; Fodge, D. W.; and Harris, B. G., 1978, J. Biol. Chem., v. 253 (6), 1868-1873
Ascaris suum, NAD⁺-malic enzyme, kinetic and isotope partitioning studies, data support random-sequential mechanism for the enzyme and provide evidence of its key role in controlling energy production

Enzymes, Parasite

- Lapp, D. F.; and Mason, S. L., 1978, *J. Parasitol.*, v. 64 (4), 645-650
Ascaris suum, trehalase, isolation from muscle, partial purification and characterization, distribution in nematode tissues

Enzymes, Parasite

- Lacroix, A.; Boulard, C.; and Keil, B., 1979, *European J. Biochem.*, v. 101 (2), 385-393
Hypoderma lineatum, collagenase, chemical and enzymatic characterization

Enzymes, Parasite

- LeFlores, W. B., 1978, *Exper. Parasitol.*, v. 46 (1), 83-91
Plagiophilis elegans cercariae, histochemical localization of dehydrogenases, metabolic implications

Enzymes, Parasite

- LeFlores, W. B., 1979, *Tr. Am. Micr. Soc.*, v. 98 (2), 225-232
Plagiophilis elegans, histochemical localization of hydrolytic enzymes, morphology of nervous system

Enzymes, Parasite

- Le Riche, P. D.; and Sewell, M. M. H., 1978, *Internat. J. Parasitol.*, v. 8 (6), 479-483
 8 taeniid cestodes, differentiation by enzyme electrophoresis

Enzymes, Parasite

- Le Riche, P. D.; and Sewell, M. M. H., 1978, *Research Vet. Sc.*, v. 25 (2), 247-248
Echinococcus granulosus, zymograms of glucose phosphate isomerase to differentiate biochemical strains, results indicate an 'ovine' strain (in sheep and cattle) and an 'equine' strain (in horses), strain from camels may also be biochemically different

Enzymes, Parasite

- Letch, C. A., 1979, *Parasitology*, v. 79 (1), 107-117
Trypanosoma cobitis should be regarded as single species of trypanosome from 6 spp. of British fish on basis of morphology, isoenzyme patterns, and cross-transmission (by syringe passage of culture forms and by leech vector *Hemiclepsis marginata*), specific names *T. phoxini*, *T. elegans*, *T. barbataulae*, *T. occidentalis*, and *T. langeroni* "should be disregarded"

Enzymes, Parasite

- Leutskaia, Z. K.; and Gerasimova, N. G., 1974, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 24, 83-86
Ascaris suum, cholesterol esterase, distribution in tissues and body fluid, possible role

Enzymes, Parasite

- Lloyd, D.; Lindmark, D. G.; and Mueller, M., 1979, *J. Parasitol.*, v. 65 (3), 466-469
Tritrichomonas foetus, respiration: absence of detectable cytochromes

Enzymes, Parasite

- Lloyd, D.; Lindmark, D. G.; and Mueller, M., 1979, *J. Gen. Microbiol.*, v. 115 (2), 301-307
Tritrichomonas foetus, adenosine triphosphatase activity

Enzymes, Parasite

- Lo, H. S.; and Reeves, R. E., 1978, *Biochem. J.*, v. 171 (1), 225-230
Entamoeba histolytica, pyruvate-to-ethanol pathway

Enzymes, Parasite

- Long, P. L.; and Millard, B. J., 1979, *Parasitology*, v. 78 (1), 41-51
Eimeria dispersa, isolation from turkeys in Britain, life cycle and reproduction, cross-protection against American strain, electrophoretic analysis of enzymes, host specificity studies, in vitro growth studies, gross pathology, pathogenicity, immunogenicity

Enzymes, Parasite

- McCaul, T. F.; and Bird, R. G., 1978, *Internat. J. Parasitol.*, v. 8 (6), 501-506
Entamoeba histolytica, *E. invadens*, trophozoites, localization of thiamine pyrophosphatase activity within cytoplasmic fine structure

Enzymes, Parasite

- McCormack, J. J.; et al., 1979, *Biochem. Pharmacol.*, v. 28 (21), 3227-3229
 inhibition of dihydrofolate reductases by derivatives of 2,4-diaminopyrroloquinazoline, *Crithidia oncopelti* used as one source of reductases

Enzymes, Parasite

- McLaughlin, J.; Lindmark, D. G.; and Mueller, M., 1978, *Biochem. and Biophys. Research Commun.*, v. 82 (3), 913-920
Entamoeba histolytica, inorganic pyrophosphatase, nucleoside diphosphatase, properties, subcellular localization

Enzymes, Parasite

- McLaughlin, J.; and Mueller, M., 1979, *J. Biol. Chem.*, v. 254 (5), 1526-1533
Tritrichomonas foetus, low molecular weight thiol proteinase, purification and characterization

Enzymes, Parasite

- McManus, D. P.; and Smyth, J. D., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 259-265
Echinococcus granulosus, horse and sheep strains, and *E. multilocularis*, comparison of enzyme electrophoretic profiles

Enzymes, Parasite

- McMullen, H. L.; and Sauer, J. R., 1978, *Experimentia*, v. 34 (8), 1030-1031
Amblyomma americanum, relationship of phosphodiesterase and cyclic AMP to the process of fluid secretion in salivary glands of feeding female ticks

Enzymes, Parasite

- Mahon, R. J.; and Shiff, C. J., 1978, *J. Parasitol.*, v. 64 (2), 572-575
Schistosoma haematobium, *S. mattheei*, differentiation of cercariae emerging from *Bulinus* snails by separation of phosphoglucosyltransferase bands by starch gel electrophoresis

Enzymes, Parasite

- Maki, J.; and Yanagisawa, T., 1979, *Parasitology*, v. 79 (3), 417-423
Angiostrongylus cantonensis, acid phosphatase activity, substrates hydrolyzed, possible function

- Enzymes, Parasite
Mandawat, S.; and Sharma, P. N., 1978, Indian J. Exper. Biol., v. 16 (9), 968-972
Paramphistomum cervi, acetyl and butyryl cholinesterase, histochemical distribution
- Enzymes, Parasite
Mansour, T. E., 1979, Science (4405), v. 205, 462-469
helminths, regulation of motility, metabolism, chemotaxis, and egg formation in relation to development of new and more selective chemotherapeutic agents, review
- Enzymes, Parasite
Mansour, T. E.; and Mansour, J. M., 1977, Biochem. Pharmacol., v. 26 (24), 2325-2330
Fasciola hepatica, phosphodiesterase, properties, kinetics, effect of phosphodiesterase inhibitors on motility and endogenous cAMP concentrations in fluke heads
- Enzymes, Parasite
Mansour, T. E.; and Mansour, J. M., 1979, Biochem. Pharmacol., v. 28 (12), 1943-1946
Fasciola hepatica, effect of some phosphodiesterase inhibitors on adenylate cyclase
- Enzymes, Parasite
Martin, B. R.; Voorheis, H. P.; and Kennedy, E. L., 1978, Biochem. J., v. 175 (1), 207-212
Trypanosoma brucei, bloodstream forms, adenylate cyclase, location in plasma membrane, characterization
- Enzymes, Parasite
Martin, E.; and Mukkada, A. J., 1979, J. Protozool., v. 26 (1), 138-142
Leishmania tropica promastigotes, crude preparations of kinetoplast vesicles used to investigate respiratory chain components, evidence for presence of typical trypanosomatid respiratory chain
- Enzymes, Parasite
Masaba, S.; and Herbert, I. V., 1978, Vet. Parasitol., v. 4 (2), 167-174
Hyostrongylus rubidus, anti-enzyme antibodies against parasite enzymes in rabbits and pigs
- Enzymes, Parasite
Matskasi, I.; and Nemeth, I., 1979, Internat. J. Parasitol., v. 9 (3), 221-227
Ligula intestinalis, plerocercoid larvae, properties of proteolytic and protease-inhibitor activities
- Enzymes, Parasite
Matuda, S., 1979, J. Biochem., Tokyo, v. 85 (2), 343-350
Ascaris lumbricoides var. suum, muscle microsomes, isolation and biochemical characterization, electron transport
- Enzymes, Parasite
Matuda, S., 1979, J. Biochem., Tokyo, v. 85 (2), 351-358
Ascaris lumbricoides var. suum, muscle microsomes, purification and characterization of b-type cytochrome and NADH-ferricyanide reductase
- Enzymes, Parasite
Mazhuga, N. A.; and Shishova-Kasatochkina, O. A., 1976, Med. Parazitol. i Parazitarn. Bolezni, v. 45 (2), 184-186
Ascaris suum, Ascaridia galli, proteolytic enzymes cathepsin-like, no trypsin- or chymotrypsin-like proteolytic enzymes
- Enzymes, Parasite
Melrose, T. R.; and Brown, C. G. D., 1979, Research Vet. Sc., v. 27 (3), 379-381
piroplasms isolated from bovine blood infected with Theileria annulata and T. parva, isoenzyme variation
- Enzymes, Parasite
Messner, B.; and Kerstan, U., 1978, Acta Histochem., v. 62 (2), 244-253
nematodes (including 11 parasitic species) and insects, histochemical evidence of peroxidase
- Enzymes, Parasite
Meyer, H.; Mueller, J.; and Meyer, F., 1978, Biochem. and Biophys. Research Commun., v. 82 (3), 834-839
Spirometra mansonioides, acyl-CoA carboxylase, isolation and some properties
- Enzymes, Parasite
Michael, A. I.; and Awadalla, H. N., 1976, J. Egypt. Vet. Med. Ass., v. 35 (4), 9-16
Fasciola hepatica, distribution of enzymes, histochemical study
- Enzymes, Parasite
Middleton, K. R.; and Saz, H. J., 1979, J. Parasitol., v. 65 (1), 1-7
Brugia pahangi, Dipetalonema viteae, Litomosoides carinii, comparative utilization of pyruvate; B. pahangi, assay and localization of some tricarboxylic acid cycle enzymes
- Enzymes, Parasite
Mied, P. A.; and Bueding, E., 1979, J. Parasitol., v. 65 (1), 14-24
Hymenolepis diminuta, glycogen synthase, allosteric activation and inhibition
- Enzymes, Parasite
Mied, P. A.; and Bueding, E., 1979, J. Parasitol., v. 65 (1), 25-30
Hymenolepis diminuta, glycogen synthase, parasite nutritional state, interconversion of enzyme forms, and primer glycogen molecular weight as control factors
- Enzymes, Parasite
Miles, M. A.; et al., 1978, Nature, London (5656), v. 272, 819-821
Trypanosoma cruzi, enzyme electrophoresis reveals 3 discrete forms of parasite in Brazil including recently discovered type responsible for first autochthonous patients with Chagas' disease in Belem, Para state
- Enzymes, Parasite
Mishra, G. C.; and Dev, B., 1977, Ztschr. Parasitenk., v. 52 (1), 103-111
Poecilobdella granulosa, phosphatase systems inhibited by various amino acids but alkaline phosphatase of stomach and intestine activated by certain amino acids at low concentrations, correlated with sanguivorous habits

Enzymes, Parasite

- Moczon, T., 1974, Acta Parasitol. Polon., v. 22 (12-21), 191-202
Hymenolepis diminuta, distribution of oxidoreductases in tissues of mature parasite

Enzymes, Parasite

- Moczon, T., 1974, Acta Parasitol. Polon., v. 22 (22-34), 323-329
Hymenolepis diminuta, non-specific and specific phosphatases in mature specimens, histochemical studies, results suggest that tegument should be considered a digestive-absorbing organ

Enzymes, Parasite

- Moczon, T., 1975, Acta Parasitol. Polon., v. 23 (41-51), 569-592
Hymenolepis diminuta, histochemical localization of enzymes of glycogen metabolism in tissues of mature parasites

Enzymes, Parasite

- Moczon, T., 1977, Acta Parasitol. Polon., v. 24 (20-27), 275-282
Hymenolepis diminuta, oncospheres and cysticercoids, enzymes of glycogen metabolism

Enzymes, Parasite

- Moczon, T., 1977, Acta Parasitol. Polon., v. 25 (1-10), 45-54
Hymenolepis diminuta, mature cestodes, oncospheres, cysticercoids, histochemical localization of enzymes of glycogen metabolism

Enzymes, Parasite

- Moczon, T., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (7), 479-481
extracts of Hymenolepis diminuta oncospheres and Nippostrongylus muris invasive larvae, negative results of biochemical tests for collagenase and hyaluronidase activities; mechanism of penetration not based on enzymatic depolymerization of collagen or hyaluronate

Enzymes, Parasite

- Moczon, T., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (8), 531-535
Hymenolepis diminuta in Tenebrio molitor, histopathologic changes in host intestine caused by penetrating oncospheres suggest that secretion of penetration glands possesses enzymatic properties

Enzymes, Parasite

- Moczon, T., 1978, Acta Parasitol. Polon., v. 25 (11-20), 163-168
Hymenolepis diminuta, oncosphere is anaerobic with no cytochrome oxidase activity, this enzyme begins to be synthesized not before 6th-7th day after invasion of Tribolium castaneum and then its activity increases rapidly, completely formed cysticercoid is typical aerobe

Enzymes, Parasite

- Moczon, T.; and Guttowa, A., 1974, Acta Parasitol. Polon., v. 22 (1-11), 9-14
Diphyllobothrium latum, Ligula intestinalis, Triphenophorus nodulosus, proceroids, oxidoreductase histochemistry

Enzymes, Parasite

- Momen, H., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 109-115
Plasmodium, Babesia, and Anthemosoma spp. in mouse erythrocytes, identification of enzymes of parasite origin using starch-gel electrophoresis

Enzymes, Parasite

- Momen, H.; Chance, M. L.; and Peters, W., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 203-212
Babesia spp., human and animal strains and Anthemosoma garnhami, taxonomic differentiation using biochemical methods (variation in mobility of parasite enzymes on starch gels after electrophoresis, measurement of buoyant densities of DNA)

Enzymes, Parasite

- Murthy, R. C.; and Tayal, S., 1978, Ztschr. Parasitenk., v. 56 (1), 63-68
Stilesia globipunctata, trehalase, activity in relation to temperature and pH, chemical activators and inhibitors

Enzymes, Parasite

- Mustafa, T.; Komunicki, R.; and Mettrick, D. F., 1978, Comp. Biochem. and Physiol., v. 61B (2), 219-222
Hymenolepis diminuta adults, glutamate dehydrogenase, subcellular distribution, kinetics and regulation

Enzymes, Parasite

- Nerad, T. A.; and Daggett, P. M., 1979, J. Protozool., v. 26 (4), 613-615
Naegleria fowleri, N. gruberi, isoenzyme electrophoresis as effective method for separation of pathogenic and nonpathogenic Naegleria strains

Enzymes, Parasite

- Nizami, W. A.; Siddiqi, A. H.; and Waseemul Islam, M., 1977, Ztschr. Parasitenk., v. 52 (3), 275-280
digenetic trematodes, comparative quantitative studies of acetylcholinesterase in seven species, higher quantities in species inhabiting gastrointestinal tract than in those parasitizing liver or swimbladder, apparently a biochemical adaptation to counteract peristalsis

Enzymes, Parasite

- Nolan, L. L.; and Kidder, G. W., 1979, Biochem. and Biophys. Research Commun., v. 91 (1), 253-262
Crithidia fasciculata, action of caffeine on purine metabolizing enzymes

Enzymes, Parasite

- Northup, J. K.; et al., 1979, J. Biol. Chem., v. 254 (23), 11861-11867
Fasciola hepatica, adenylate cyclase, detergent extraction from membrane preparations, properties of solubilized vs. particulate enzyme

Enzymes, Parasite

- Northup, J. K.; and Mansour, T. E., 1978, Molec. Pharm., v. 14 (5), 804-819
Fasciola hepatica, ligand specificity of adenylate cyclase-coupled serotonin receptors

- Enzymes, Parasite
Northup, J. K.; and Mansour, T. E., 1978, Molec. Pharm., v. 14 (5), 820-833
Fasciola hepatica, role of guanine nucleotides in coupling adenylate cyclase and serotonin receptors
- Enzymes, Parasite
Nwosu, A. B. C., 1978, Internat. J. Parasitol., v. 8 (5), 355-358
Ancylostoma tubaeforme, infective larvae, age-related changes in esterase and acetylcholinesterase activities
- Enzymes, Parasite
Oguchi, M.; Kanda, T.; and Akamatsu, N., 1979, Comp. Biochem. and Physiol., v. 63B (3), 335-340
Angiostrongylus cantonensis, glucokinase, isolation and characterization
- Enzymes, Parasite
Omar, M. S., 1978, Tropenmed. u. Parasitol., v. 29 (4), 462-472
Onchocerca volvulus, histochemical enzyme-staining patterns of microfilariae from persons in different geographical areas
- Enzymes, Parasite
Omar, M. S.; Denke, A. M.; and Raybould, J. N., 1979, Tropenmed. u. Parasitol., v. 30 (2), 157-162
Onchocerca ochengi, development to infective stage in Simulium damnosum complex (probably S. sanctipauli) (nat. and exper.); histochemical staining of larval stage acid phosphatase distribution pattern in flies; comparisons of development and staining with that of O. volvulus: southwest Togo
- Enzymes, Parasite
Omar, M. S.; and Kuhlow, F., 1977, Tropenmed. u. Parasitol., v. 28 (4), 467-470
Wuchereria bancrofti microfilaria, cholinesterase activity demonstrated in amphids, phasmids, nerve-ring, excretory and anal vesicles
- Enzymes, Parasite
Omar, M. S.; and Kuhlow, F., 1977, Tropenmed. u. Parasitol., v. 28 (4), 552-553
Loa loa, Dipetalonema perstans, differentiation using histochemical patterns of acid phosphatase activity in microfilariae
- Enzymes, Parasite
Omar, M. S.; and Schulz-Key, H., 1978, Tropenmed. u. Parasitol., v. 29 (3), 359-363
Onchocerca volvulus, development of larval stages in Simulium damnosum determined by acid phosphatase activity staining patterns
- Enzymes, Parasite
Oya, Y.; and Noguchi, I., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (5), 377-381
Ancylostoma caninum, amylase, characterization
- Enzymes, Parasite
Oya, Y.; and Noguchi, I., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (5), 307-313
Ancylostoma caninum, properties of hemoglobin protease
- Enzymes, Parasite
Pappas, P. W., 1978, Ohio J. Sc., v. 78 (3), 152-153
Lacistorhynchus tenuis, inability to utilize CO₂ produced by urease during urea catabolism
- Enzymes, Parasite
Pappas, P. W.; and Gamble, H. R., 1978, Exper. Parasitol., v. 46 (2), 256-261
Hymenolepis diminuta possesses tegumental ribonuclease which hydrolyzes native rat liver RNA and degraded yeast RNA
- Enzymes, Parasite
Pappas, P. W.; and Schroeder, L. L., 1979, Exper. Parasitol., v. 47 (2), 134-139
Hymenolepis microstoma adults, lactate and malate dehydrogenases, partial characterization
- Enzymes, Parasite
Parshad, V. R.; and Guraya, S. S., 1977, Ztschr. Parasitenk., v. 52 (1), 81-89
Ascaridia galli, Cotylophoron cotylophorum, Raillietina cesticius, histochemistry of excretory systems, localization of lipids, carbohydrates, and hydrolytic enzymes; substance transportation and ionic regulation discussed
- Enzymes, Parasite
Parshad, V. R.; and Guraya, S. S., 1978, Vet. Parasitol., v. 4 (2), 111-120
4 helminth spp., comparison of phosphatases, effects of pH, various chemicals, and some anthelmintics on enzyme activity, anthelmintics may affect absorptive process in worms by virtue of their effect on phosphatase system at absorptive surfaces
- Enzymes, Parasite
Parshad, V. R.; and Guraya, S. S., 1978, J. Helminth., v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients
- Enzymes, Parasite
Patel, T. R.; and McFadden, B. A., 1978, Exper. Parasitol., v. 44 (1), 72-81
Ascaris suum, Caenorhabditis elegans, crude extracts, differential decay of isocitrate lyase, malate synthase, catalase, citrate synthase, and fumarase, results underscore importance of recognizing that extensive proteolysis may occur after rupture of nematode cells
- Enzymes, Parasite
Patel, T. R.; and McFadden, B. A., 1978, Exper. Parasitol., v. 44 (2), 262-268
Caenorhabditis elegans, Ascaris suum, inhibition of isocitrate lyase by itaconate
- Enzymes, Parasite
Pavlov, A. V.; and Chesnokova, T. T., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 119-126
Ascaridia galli, chickens, nonspecific esterase and cholinesterase activity in helminth tissue in relation to immune status of host

Enzymes, Parasite

Pereira, N. M.; et al., 1978, *Exper. Parasitol.*, v. 46 (2), 225-234

Trypanosoma cruzi, membrane and flagellar fractions, isolation and characterization: electron microscopy; enzyme composition; gel immunodiffusion test

Enzymes, Parasite

Petavy, A. F.; et al., 1978, *Avian Path.*, v. 7 (4), 533-540

Syngamus trachea, antigenic structure studied by gel electrophoresis and by immunoelectrophoresis including staining for enzyme activity, cross-reactions with *Trichinella spiralis* and *Ascaris lumbricoides*

Enzymes, Parasite

Peters, W.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (1), 23-36

Plasmodium berghei 'NS lines' form distinct taxon within *P. yoelii* complex and should be referred to as *P. yoelii* subspecies on basis of isoenzyme, DNA, and cross-immunity relationships with other rodent *Plasmodium* spp.

Enzymes, Parasite

Pfefferkorn, E. R., 1978, *Exper. Parasitol.*, v. 44 (1), 26-35

Toxoplasma gondii, pyrimidine salvage pathways examined to determine enzymic defect of mutant resistant to 5-fluorodeoxyuridine

Enzymes, Parasite

Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1978, *J. Parasitol.*, v. 64 (3), 486-492

Toxoplasma gondii, lack of adenosine kinase is biochemical basis for resistance to adenine arabinoside in mutant

Enzymes, Parasite

Platzer, E. G.; and Kassis, J. A., 1978, *J. Protozool.*, v. 25 (4), 556-559

Plasmodium lophurae, pyridoxine kinase in trophozoites and in duckling erythrocytes, results suggest that vitamin B₆ metabolism of malaria parasites is distinct and separate from that of host erythrocytes

Enzymes, Parasite

Ramalingam, K., [1972], *An. Inst. Biol., Univ. Nac. Mexico*, v. 41 (1), s. Zool., 1970, 145-154

Pricea multae, and other trematodes, role of vitelline cells and Mehlis' gland in formation of egg-shell

Enzymes, Parasite

Ramulu, G. R.; and Rao, L. N., 1979, *Current Sc.*, Bangalore, v. 48 (16), 745 [Letter]

Diplodiscus subclavatus, suckers, esterase activity and mode of innervation; esterase activity also in caeca

Enzymes, Parasite

Ramulu, G. R.; and Rao, L. N., 1979, *Proc. Indian Acad. Sc., Sect. B, Animal Sc.*, v. 88 (2, pt. 1), 145-151

Prosthodendrium dinanantum, *P. pyramidum*, nerve arrangement, distribution and characterization of esterases

Enzymes, Parasite

Rao, K. N., 1978, *Comp. Physiol. and Ecol.*, v. 3 (4), 256-257

Litomosoides carinii, neurotransmitters (acetylcholinesterase, noradrenalin, and protein), activity levels

Enzymes, Parasite

Reich, C. I.; et al., 1978, *Exper. Parasitol.*, v. 44 (1), 50-55

Boophilus microplus, 2 Argentinian strains, one resistant and one sensitive to organophosphate acaricides, differences in cholinesterase system

Enzymes, Parasite

Reich, C. I.; and Zorzopulos, J., 1978, *Exper. Parasitol.*, v. 44 (1), 1-6

Boophilus microplus, proteases in extracts of larvae, characterization

Enzymes, Parasite

Reiner, E.; et al., 1978, *Comp. Biochem. and Physiol.*, v. 60C (2), 155-157

Metastrongylus apri, cholinesterase, kinetic properties with respect to substrate hydrolysis and inhibition by organophosphorus compounds

Enzymes, Parasite

Reiner, E.; et al., 1979, *Comp. Biochem. and Physiol.*, v. 63C (1), 73-74

Paramphistomum microbothrium, *Ascaris suum*, *Neoscaris vitulorum*, number of cholinesterases

Enzymes, Parasite

Renart, M. F.; et al., 1979, *Biochem. and Biophys. Research Commun.*, v. 89 (4), 1146-1153

Fasciola hepatica, fluoride and guanosine nucleotide activated adenylate cyclase, reconstitution after inactivation

Enzymes, Parasite

Robinson, J. M.; and Bogitsh, B. J., 1978, *Exper. Parasitol.*, v. 45 (2), 169-174

Hymenolepis diminuta, biochemical properties of peroxidase activity in mitochondria

Enzymes, Parasite

Rogers, W. P.; and Brooks, F., 1978, *Internat. J. Parasitol.*, v. 8 (1), 55-58

Haemonchus contortus, leucine aminopeptidase in exsheathing fluid of North American and Australian juveniles, results support view that this enzyme is produced by juveniles and is concerned in exsheathment

Enzymes, Parasite

Rogers, W. P.; and Brooks, F., 1978, *Internat. J. Parasitol.*, v. 8 (6), 449-452

Haemonchus contortus, relative levels of exsheathing and leucine aminopeptidase (LAP) activity in different preparations, effect of purifying LAP in exsheathing fluid on biological activity, concluded that LAP cannot be sole agent involved in exsheathment

Enzymes, Parasite

Rollinson, D.; Joyner, L. P.; and Norton, C. C., 1979, *Parasitology*, v. 78 (3), 361-367

Eimeria maxima (Weybridge) and *E. maxima* (indentata) were distinguished by electrophoretic mobility of phosphoglucosyltransferase, this enzyme was used as marker to detect genetic transfer of methyl benzoate resistance between resistant and sensitive lines of these parasites

Enzymes, Parasite

- Romanha, A. J.; et al., 1979, Comp. Biochem. and Physiol., v. 62B (2), 139-142
Trypanosoma cruzi, isoenzyme patterns of 4 soluble enzymes in seven parasite stocks determined by electrophoresis, changes after prolonged subculture

Enzymes, Parasite

- Ross, G. C.; Southgate, V. R.; and Knowles, R. J., 1978, Ztschr. Parasitenk., v. 57 (1), 49-56
Schistosoma bovis strains, *S. mattheei*, *S. margrebowiei*, *S. leiperi*, isoenzymes compared by isoelectric focusing, technique for further studies of inter- and intraspecific relationships

Enzymes, Parasite

- Rotmans, J. P., 1978, Exper. Parasitol., v. 46 (1), 31-48
Schistosoma mansoni, malate dehydrogenases, purification and characterization, discussion of possible role in metabolism

Enzymes, Parasite

- Rotmans, J. P., 1978, Exper. Parasitol., v. 46 (1), 49-58
Schistosoma mansoni, antigenic characterization of malate dehydrogenase isoenzymes by immunoelectrophoresis, malate dehydrogenase antigens in *S. mansoni*, *S. haematobium*, and *S. bovis* are immunologically indistinguishable, attempted use of these antigens in defined antigen substrate spheres system, not sensitive enough for immunodiagnosis

Enzymes, Parasite

- Roy, T. K., 1979, J. Helminth., v. 53 (1), 45-49
Raillietina johri, nonspecific and specific phosphatases, histochemical localization

Enzymes, Parasite

- Roy, T. K., 1979, J. Helminth., v. 53 (3), 261-263
Raillietina johri, nucleoside diphosphatase, thiamine pyrophosphatase, histochemical localization

Enzymes, Parasite

- Rumjanek, F. D.; Broomfield, K. E.; and Smithers, S. R., 1979, Exper. Parasitol., v. 47 (1), 24-35
Schistosoma mansoni, glycosyl transferase activity, possible correlation with carbohydrate composition of tegument

Enzymes, Parasite

- Rumjanek, F. D.; and Smithers, S. R., 1978, Parasitology, v. 77 (1), 75-86
Schistosoma mansoni, mannosyl transferase activity in homogenates of adult worms, results suggest that adult schistosomes are equipped with enzymatic systems participating in the biosynthesis of glycoproteins and of other classes of glycosylated compounds

Enzymes, Parasite

- Sanchez Moreno, M.; and Barrett, J., 1979, Parasitology, v. 78 (1), 1-5
Hymenolepis diminuta, adults, monoamine oxidase, occurrence and properties, inhibition by several anthelmintics

Enzymes, Parasite

- Sargeant, P. G.; and Williams, J. E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 164-166
Entamoeba histolytica (14 stocks), *E. coli* (1 stock), electrophoretic isoenzyme patterns

Enzymes, Parasite

- Sargeant, P. G.; and Williams, J. E., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 225-227
 pathogenic and non-pathogenic intestinal amoeba of man, all species can easily be distinguished by characteristic electrophoretic isoenzyme patterns

Enzymes, Parasite

- Sargeant, P. G.; Williams, J. E.; and Grene, J. D., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 519-521
Entamoeba histolytica, differentiation of invasive and non-invasive forms by isoenzyme electrophoresis

Enzymes, Parasite

- Sasi, P. K.; and Raj, R. K., 1978, Experientia, v. 34 (9), 1156-1157
Ascaris lumbricoides has necessary mechanism for biosynthesis and degradation of phospholipids and triacylglycerols, piperazine decreases level of triacylglycerols of this parasite by stimulating activity of lipase and partially inhibiting activity of phosphatidate phosphatase

Enzymes, Parasite

- Sathyanarayana, M. C.; and Anantaraman, S., 1979, Proc. Indian Acad. Sc., Sect. B, Animal Sc., v. 88 (2, pt. 1), 115-118
Ganeo tigrinum, phosphomonoesterase activity at different levels of pH

Enzymes, Parasite

- Schillhorn van Veen, T. W.; and Blotkamp, J., 1978, Tropenmed. u. Parasitol., v. 29 (1), 33-35
Dipetalonema, *Dirofilaria*, *Onchocerca*, and *Setaria* spp., differentiation of microfilariae by using histochemical determination of enzyme activity

Enzymes, Parasite

- Scorza, J. V., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (2), 97-105
Plasmodium tropiduri, *P. berghei*, *P. gallinaceum*, intraerythrocytic stages, morphological and enzyme cytochemical observations on phagotrophy

Enzymes, Parasite

- Seed, J. L.; Boff, M.; and Bennett, J. L., 1978, J. Parasitol., v. 64 (2), 283-289
Schistosoma mansoni, phenol oxidase, biochemical method for detection (enzyme activity induced by in vitro incubation of female schistosomes), enzyme properties and effects of various drugs upon its activity, appears to be associated with egg production and may serve as target for development of drugs, also as a useful marker for biochemical and immunological studies

Enzymes, Parasite

- Segida, G. V., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 80-88
Ascaridia galli, levels and localization of RNA, alkaline phosphatase and glycogen in nerve cells of both sexes of adult worms

Enzymes, Parasite

- Seniuta, R., 1975, *Acta Parasitol. Polon.*, v. 23 (41-51), 593-601
Trichinella spiralis, cytochemical localization of phosphatases in different developmental stages

Enzymes, Parasite

- Shakespeare, P. G.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (5), 407-415
Plasmodium knowlesi, glucose metabolism, activities of the glycolytic and pentose phosphate pathways during the intraerythrocytic cycle, studies suggest that parasite carries its own complement of glycolytic enzymes

Enzymes, Parasite

- Sharma, P. N., 1978, *Indian J. Exper. Biol.*, v. 16 (11), 1202-1203
Ceylonocotyle scoliocoelium, monoamine oxidase, histochemical localization in lymphatic system, enzyme activity recorded in form of granules which represent mitochondria

Enzymes, Parasite

- Sharma, P. N., 1978, *J. Helminth.*, v. 52 (2), 159-162
Ceylonocotyle scoliocoelium, histochemical distribution of succinic dehydrogenase in lymphatic system, enzyme activity appeared in form of diformazon granules which are believed to consist of mitochondrial aggregates, suggested that this enzyme helps in transportation of metabolites

Enzymes, Parasite

- Sharma, P. N., [1978], *Riv. Parassitol.*, Roma, v. 38 (2-3), 1977, 233-245
 intestinal trematodes from various vertebrates, hydrolytic enzymes, distribution in parasite gut, functional significance

Enzymes, Parasite

- Sharma, P. N., 1979, *Indian J. Exper. Biol.*, v. 17 (5), 479-483
 10 digenetic trematodes, histochemical localization of glycogen, lipids, proteins, and phosphatases in parenchyma and other tissues

Enzymes, Parasite

- Sharma, P. N., 1979, *Indian J. Exper. Biol.*, v. 17 (5), 525-528
Ceylonocotyle scoliocoelium, histochemical distribution of succinate dehydrogenase

Enzymes, Parasite

- Sharma, P. N., 1979, *Indian J. Exper. Biol.*, v. 17 (11), 1268-1271
Ceylonocotyle scoliocoelium, histochemical detection of specific and non-specific cholinesterase activity in nervous system

Enzymes, Parasite

- Sharma, P. N.; and Hora, C., 1979, *Indian J. Exper. Biol.*, v. 17 (11), 1271-1273
Paramphistomum cervi, histochemical demonstration of monoamine oxidase in tissues

Enzymes, Parasite

- Sharma, R. K.; and Singh, K., 1977, *Ztschr. Parasitenk.*, v. 54 (3), 251-256
Stephanurus dentatus, glutamic-oxalacetic and glutamic-pyruvic transaminases, assay and general properties

Enzymes, Parasite

- Shirley, M. W., 1978, *Ztschr. Parasitenk.*, v. 57 (1), 83-87
Eimeria mivati and *E. mivati* var. *diminuta* strains differing in sensitivity to sulphaminoxaline and electrophoretic mobility of lactate dehydrogenase crossed; electrophoretic variation of enzymes a further marker for genetic studies

Enzymes, Parasite

- Shishov, B. A., 1971, *Parazitologiya*, Leningrad, v. 5 (4), 341-343
Eustrongylides excisus, localization of cholinesterase activity in neural and muscular structures

Enzymes, Parasite

- Shishov, B. A., 1973, *Parazitologiya*, Leningrad, v. 7 (5), 475-478
Macracanthorhynchus hirudinaceus, *Acanthocephalus lucii*, cholinesterase activity in muscular and nervous tissue

Enzymes, Parasite

- Shishov, B. A.; and Chuprov, A. K., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 21, 133-140
Ascaridia galli, cholinesterase activity in nerve and muscle tissue

Enzymes, Parasite

- Shishov, B. A.; Koishibaev, G.; and Timofeeva, T. N., 1973, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 23, 203-211
Stephanofilaria stilesi, *Setaria labiata-papillosa*, localization of cholinesterase activity in nervous system

Enzymes, Parasite

- Shishova-Kasatochkina, O. A.; and Dubovskaia, A. Ia., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 21, 140-151
 comparison of mechanisms of formation of hydrolytic enzymes in helminth and mammalian intestines, review

Enzymes, Parasite

- Shishova-Kasatochkina, O. A.; and Dubovskaja, A. J., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 389-393
 6 cestode species, proteinase activity, differences in adult and larval parasites, differences in relation to class of vertebrate host, high proteolytic activity in *Schistocephalus solidus* tegument

Enzymes, Parasite

- Shishova-Kasatochkina, O. A.; Sokhina, L. I.; and Abramova, T. G., 1974, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 24, 250-255
Ascaris suum, *Ascaridia galli*, *Contracaecum aduncum*, urease activity and ureogenesis in relation to class of host, analogy between some specific metabolic processes of the host and its parasite

Enzymes, Parasite

- Simon, M. W.; Martin, E.; and Mukkada, A. J., 1978, *J. Bacteriol.*, v. 135 (3), 895-899
Leishmania spp., evidence for functional glyoxylate cycle

Enzymes, Parasite

- Simonic, T. and Locatelli, A., 1978, *Arch. Vet. Ital.*, Milano, v. 29 (3-4), 101-103
Fasciola hepatica homogenates, serotonin (5-HT) activates and 3',5'-cyclic GMP inhibits glycogen-phosphorylase activity

- Enzymes, Parasite
Singh, U. S.; Raizada, M. K.; and Rao, V. K. M., 1978, Zentralbl. Bakteriologie, 1 Abt. Orig., Reihe A, v. 241 (3), 358-367
Hartmannella culbertsoni, axenically grown, purification and properties of L-histidine ammonia-lyase, marked inhibitory effect of certain amoebicidal drugs and divalent cations
- Enzymes, Parasite
Singhal, K. C.; et al., 1978, Indian J. Physiol. and Pharmacol., v. 22 (1), 71-74
Setaria cervi adults, estimation of total and free acetylcholine and cholinesterase content, acetylcholine as possible neurotransmitter; implications for designing cholinergic blocking agents which are selective to the parasite
- Enzymes, Parasite
Sircar, M.; and Sinha, D. P., 1978, Indian J. Animal Research, v. 12 (1), 27-30
Lytocestus indicus, Duthiersia fimbriata, Raillietina echinobothrida, histochemical study, sites of alkaline phosphatase activity
- Enzymes, Parasite
Smith, T. M.; and Brown, J. N., 1978, Comp. Biochem. and Physiol., v. 59B (1), 51-53
Schistosoma mansoni, S. japonicum, absence of tyrosine aminotransferase (TAT) in adult flukes, effect of 10 week infections on TAT activity in livers of female mice
- Enzymes, Parasite
Sood, M. L.; and Sehajpal, K., 1978, Ztschr. Parasitenk., v. 56 (3), 267-273
Haemonchus contortus, morphology, histology, and biochemistry of gut, relationships to nutrition and digestion
- Enzymes, Parasite
Sood, P. P., 1977, Ztschr. Parasitenk., v. 53 (3), 267-272
Glossimetreia orientalis, histochemical study of butyryl cholinesterase in various tissues, functional significance in various locations discussed
- Enzymes, Parasite
Sood, P. P.; and Gupta, A. N., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 311-323
Glossimetreia orientalis, histochemical localization of non-specific esterase, implications for lipid metabolism
- Enzymes, Parasite
Sosa, A.; et al., 1978, Experientia, v. 34 (2), 175-177
Cysticercus cellulosae, ATPase demonstrated in microtriches by high resolution cytochemistry, possible role in preferential tissue distribution of this parasite
- Enzymes, Parasite
Spector, T.; Jones, T. E.; and Elion, G. B., 1979, J. Biol. Chem., v. 254 (17), 8422-8426
Leishmania donovani promastigotes, adenylosuccinate synthetase and adenylosuccinate lyase, purification, properties, substrate and inhibitor specificities, selective amination of allopurinol ribonucleotide may be related to its antileishmanial activity
- Enzymes, Parasite
Srivastava, M.; and Gupta, S. P., 1978, Ztschr. Parasitenk., v. 55 (1), 55-58
Isoparorchis hypselobagri, polyphenol oxidase activity, probable role in egg-shell formation; scleroprotein/melanin pigment in egg
- Enzymes, Parasite
Stirewalt, M., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 548-555
Schistosoma mansoni cercariae, preacetabular gland enzyme(s), quantitative collection and proteolytic activity
- Enzymes, Parasite
Stoebner, P.; Ambrose-Thomas, P.; and Honnons, S., 1978, Ann. Parasitol., v. 53 (4), 323-331
Toxoplasma gondii, ultrastructural localization of peroxidase, cytochrome oxidase, and acid phosphatase activity
- Enzymes, Parasite
Takeuchi, T.; et al., 1979, Comp. Biochem. and Physiol., v. 62B (5), 281-285
Entamoeba histolytica, axenically cultivated trophozoites, enzymatic mechanism of L-serine oxidation
- Enzymes, Parasite
Tanabe, M., 1979, Exper. Parasitol., v. 48 (1), 135-143
Trichomonas vaginalis, NADH oxidase, purification, reaction products, characterization
- Enzymes, Parasite
Telles de Jesus Filho, M.; and Miraglia, T., 1977, Acta Histochem., v. 59 (1), 160-167
Sarcocystis fusiformis cysts in ox heart, histochemical (primarily histoenzymologic) observations, implications for parasite metabolism, no inflammatory reactions found around cysts and enzymatic reactivity of muscle fibers near to cysts was not different from normal fibers
- Enzymes, Parasite
Threadgold, L. T.; and Brennan, G., 1978, Exper. Parasitol., v. 46 (2), 300-316
Fasciola hepatica, basal infolds and associated vacuoles of tegument: general and enzymatic histochemistry, osmotic behavior, theory outlining possible mode of operation of tegument as transporting epithelium
- Enzymes, Parasite
Tizard, I. R.; et al., 1978, Tropenmed. u. Parasitol., v. 29 (1), 127-153
Trypanosoma congolense, concomitant generation of phospholipase A and hemolytic fatty acids by autolysing suspensions, autolysis of T. lewisi did not generate hemolytic activity unless exogenous phospholipase A was added
- Enzymes, Parasite
Tret'iakov, A. V.; and Belinskaia, V. Z., 1974, Parazitologiya, Leningrad, v. 8 (4), 353-358; Correction (5), 471
Hypoderma spp., Oedemagena tarandi, midgut extracts of 1st stage larvae, 3 active fractions (toxic, proteolytic, collagenase)
- Enzymes, Parasite
Umezurike, G. M.; and Anya, A. O., 1978, Comp. Biochem. and Physiol., v. 59B (2), 147-151
Strongyluris brevicaudata, anaerobic carbohydrate energy metabolic pathway

Enzymes, Parasite

Vasilev, I.; Poliakova-Krusteva, O.; and Gorchilova, L., 1976, *Khelmintologiya*, Sofia, v. 2, 42-49

Raillietina spp., enzyme identification and distribution in tegument, differences among species in degree of enzyme manifestation interpreted as due to localization of species in chick intestine

Enzymes, Parasite

Venkata Rama Krishna, G.; Narsiah, J. V.; and Simha, S. S., 1979, *Current Sc.*, Bangalore, v. 48 (4), 183-184 [Letter]

Cotugnia sp., nervous system structure, acetylcholinesterase distribution, histochemical study

Enzymes, Parasite

Von Kruger, W. M. A.; et al., 1978, *Comp. Biochem. and Physiol.*, v. 60B (1), 41-46

Schistosoma mansoni, oxygen consumption and lactate production by cercariae and larvae in several stages of development, lactate dehydrogenase activity from cercaria, cercarial bodies and tails, and schistosomules compared

Enzymes, Parasite

Voorheis, H. P.; et al., 1979, *Biochem. J.*, v. 180 (1), 11-24

Trypanosoma brucei, plasma membrane, isolation and partial characterization

Enzymes, Parasite

Vrijenhoek, R. C., 1978, *J. Parasitol.*, v. 64 (5), 790-798

Contracaecum, 2 morphologically indistinct populations of larvae from *Poeciliopsis* spp. and *Cichlasoma baeni*, electrophoretic examination of proteins (enzymatic and non-enzymatic) produced by 11 gene loci revealed presence of 2 sexually reproducing sympatric 'semispecies' that have diagnostically distinct alleles for 2 loci: Sonora, Mexico

Enzymes, Parasite

Walter, R. D., 1978, *Hoppe-Seyler's Ztschr. Physiol. Chem.*, v. 359 (5), 601-606

Trypanosoma gambiense, 3 protein kinases separated and characterized

Enzymes, Parasite

Walter, R. D., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 3-8

Leishmania tropica promastigotes, purification and properties of glucose-6-phosphate dehydrogenase

Enzymes, Parasite

Walter, R. D.; Buse, E.; and Ebert, F., 1978, *Tropenmed. u. Parasitol.*, v. 29 (4), 439-442

Leishmania tropica, *L. donovani*, in vitro, correlation between cyclic adenosine monophosphate concentration within cells and their proliferation and transformation

Enzymes, Parasite

Walter, R. D.; and Ebert, F., 1979, *J. Protozool.*, v. 26 (4), 653-656

Trypanosoma cruzi epimastigotes, evidence for NADH- and NADPH-linked glutamate dehydrogenases

Enzymes, Parasite

Walter, R. D.; and Ebert, F., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 9-12

Trypanosoma cruzi, inhibitory effect of polyamines on parasite protein kinases activity

Enzymes, Parasite

Wang, C. C.; and Stotish, R. L., 1978, *Comp. Biochem. and Physiol.*, v. 61B (2), 307-313

Eimeria tenella, multiple leucine aminopeptidases in oocysts, changes during sporulation

Enzymes, Parasite

Watts, S. D. M.; Orpin, A.; and MacCormick, C., 1979, *Parasitology*, v. 78 (3), 287-294

Schistosoma mansoni, tegument pathology following chemotherapy with 153C51, lysosomal involvement (accumulation of inclusions with characteristics of residual lysosomes, changes in localization of acid phosphatase), immunological factors probably not involved

Enzymes, Parasite

Weber, G., 1978, *Naturwissenschaften*, v. 65 (11), 601-602

Theileria annulata, atypical mitochondria identified by ultracytochemical demonstration of mitochondrial marker enzymes, presence of both succinic dehydrogenase and cytochrome oxidase activity suggests that respiratory chain is operative in sporozoites

Enzymes, Parasite

Wright, C. A.; Rollinson, D.; and Góll, P. H., 1979, *Parasitology*, v. 79 (1), 95-105

Bulinus senegalensis and associated parasites, isoelectric focusing studies on enzymes, differences in prevalence and variety of infections in 7 host populations: south bank of Gambia River

Enzymes, Parasite

Wright, C. A.; Southgate, V. R.; and Ross, G. C., 1979, *Internat. J. Parasitol.*, v. 9 (6), 523-528

Schistosoma intercalatum, Lower Guinea vs. Zaire strains, enzyme analysis by isoelectric focusing

Enzymes, Parasite

Wright, I. G., 1979, *Gen. Pharmacol.*, v. 10 (4), 319-325

Babesia, *Plasmodium*, *Trypanosoma*, kallikrein-kinin system, mechanisms of activation (parasite enzymes, immune complexes), role in hypotensive shock syndrome of infected animals, review

Enzymes, Parasite

Yawetz, A.; and Agosin, M., 1979, *Biochim. et Biophys. Acta*, v. 585 (2), 210-219

Trypanosoma cruzi epimastigotes, epoxide hydrolase, characterization, may be important in detoxication of drugs

Enzymes, Parasite

Yen, P. K. F.; and Mak, J. W., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (2), 157-162

Brugia, *Wuchereria*, *Dirofilaria*, and *Breinelia* spp., microfilariae, histochemical differentiation by distribution of acid phosphatase activity

Enzymes, Parasite

Yoshida, N.; et al., 1978, *J. Protozool.*, v. 25 (4), 550-555

Herpetomonas spp., enzymes of ornithine-arginine metabolism

Enzymes, Parasite

- Yusufo, A. N. K.; and Siddiqi, A. H., 1978, Ztschr. Parasitenk., v. 56 (1), 47-53
Gastrothylax crumenifer, *Srivastavaia indica*, *Isoparorchis hypselobagri*, carbohydrate metabolism and enzyme studies suggest possible existence of pentosephosphate pathway and capacity for gluconeogenesis

Enzymes, Parasite

- Zaitseva, G. N.; Aseev, V. V.; and Kunavina, I. Iu., 1978, Biokhimiia, v. 43 (2), 283-289
Crithidia oncopelti nucleoli, DNA-dependent RNA polymerase activity

Enzymes, Parasite

- Zingales, B.; et al., 1979, Biochim. et Biophys. Acta, v. 550 (2), 233-244
Trypanosoma cruzi epimastigotes, procedure for purification of adenyl cyclase-containing plasma membrane fraction, identity and purity of such membranes were assessed by biochemical and ultrastructural criteria

Enzymes, Parasite

- Zorropulos, J.; Reich, C. I.; and Galassi, N., 1978, Exper. Parasitol., v. 45 (1), 128-138
Boophilus microplus, characterization of larval phosphomonoesterases, isolation of subcellular fractions with high phosphatase activity, antigenic analysis

Eosinophilia. [See also Blood; Immunity, Eosinophils and eosinophilia]

Eosinophilia

- Blom, M.; Prag, J. B.; and Nørredam, K., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 76-83
 intestinal parasites, children from Vietnam-Cambodia at and after arrival in Denmark, α_1 -acid glycoprotein, α_1 -antitrypsin, and ceruloplasmin concentrations, eosinophilia, sedimentation rates, effect of T.A.B.-cholera vaccination

Eosinophilia

- Bozoti, M. M., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (2), 117-131
 human geohelminths, both increases and decreases in blood eosinophilia noted after therapy, high post treatment eosinophilia does not therefore necessarily mean treatment failure

Eosinophilia

- Faraco, B. F. C.; and Faraco, B. A., 1976, Rev. Brasil. Clin. e Terap., v. 5 (10), 389-392
 human intestinal parasites, survey of possible relationships between parasitism and blood eosinophilia

Eosinophilia

- Foung, S.; and Glader, B. E., 1979, Pediat. Ann., v. 8 (6), 39, 42-43, 46-51
 eosinophilia in children, mechanism of normal eosinophil values and function, review

Eosinophilia

- Glassman, A. B.; Holbrook, T. W.; and Bennett, C. E., 1979, J. Parasitol., v. 65 (2), 323-324
Placobdella multilineata-infested *Alligator mississippiensis* (dorsal and lateral body surfaces, within oral cavity), increased eosinophilia; *Haemogregarina* sp. in alligators (blood) and in histologic sections of leeches, probable vectorial relationship

Eosinophilia

- Glickman, L. T.; Schantz, P. M.; and Cypess, R. H., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 254-258
Toxocara canis, patients with diagnostic ELISA titres vs. patients with presumed visceral larva migrans but less or no detectable antibody, clinical findings (including leucocytosis, eosinophilia, increased anti-A or anti-B isohaemagglutinin titre, elevated serum IgG level), epidemiological characteristics (age, sex, northern vs. southern residence, history of pica)

Eosinophilia

- Goven, A. J., 1979, Internat. J. Parasitol., v. 9 (3), 193-198
Nippostrongylus brasiliensis, rats infected with various larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden

Eosinophilia

- Goven, A. J., 1979, Internat. J. Parasitol., v. 9 (4), 345-349
Nippostrongylus brasiliensis, sensitized rats challenged with varied larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden

Eosinophilia

- Joerg, A.; et al., 1978, Experientia, v. 34 (12), 1654-1656
 rapid and simple method for isolation of pure eosinophilic leukocytes from horse blood

Eosinophilia

- Karnaukhov, V. K., 1977, Sovet. Med. (7), 84-88
 high blood eosinophilia in presence of human helminthiasis and other infections, greatest diagnostic difficulties encountered with ascariasis, strongyloidiasis, fascioliasis and opisthorchiasis

Eosinophilia

- Koenig, W., 1978, Immun. u. Infekt., v. 6 (3), 97-105
 eosinophil leucocytes, structure and function, review

Eosinophilia

- Okelo, G. B. A.; Mukiibi, J. M.; and Kyobe, J., 1979, East African Med. J., v. 56 (6), 266-269
 intestinal parasites, humans, mean eosinophil count higher in infected patients vs. controls, no correlation between eosinophil levels and different intestinal helminths: Nairobi, Kenya

Eosinophilia

- Oshima, T., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (6), 447-455
Toxocara canis, specific-pathogen-free beagles vs. prenatally infected mongrel dogs dewormed before inoculation (exper.), larval migration and development, eosinophilia after primary and superinfection, age resistance

Eosinophilia

- Ottesen, E. A.; and Weller, P. F., 1979, J. Infect. Dis., v. 139 (3), 343-347
Schistosoma mansoni, *Wuchereria bancrofti*, human, enhanced eosinophilia after chemotherapy, degree of post-treatment eosinophilia for filariasis patients was significantly correlated with worm burdens before treatment

Eosinophilia

Perrot, P. A.; Berthoud, S.; and Widgren, S., 1979, *Schweiz. Med. Wchnschr.*, v. 109 (24), 920-927

schistosomiasis *mansoni*, woman (liver, intestine), persistent colitis with marked eosinophilia of unknown etiology following successful treatment with niridazole, differential diagnosis discussed: from French Antilles, living in Europe

Eosinophilia

Przyjalkowski, Z., 1978, *Acta Parasitol. Polon.*, v. 25 (11-20), 169-178

Trichinella spiralis in germfree vs. conventional mice, intensity of infection (greater in conventional mice), elimination of adult worms (earlier and more complete in germfree mice), changes in packed cell volume and differential leukocyte counts (higher eosinophilia in germfree mice), concluded that intestinal microflora plays important role in establishment and elimination of intestinal trichinellae

Eosinophilia

Ramos Rodriguez, A.; and Mendoza Rangel, M. G., 1973, *Rev. Med.*, Mexico, v. 12 (2), 195-197
pulmonary eosinophilia with asthma-like symptoms, possible relationships with human intestinal parasites, resolution of symptoms after eradication of parasites: Mexico

Eosinophilia

Sasaki, O.; and Hyogo, Y., 1977, *Bull. Akita Prefect. Coll. Agric.* (3), 11-21
Metastrongylus apri, guinea pigs (exper.), eosinophil infiltration in pulmonary tissue

Eosinophilia

Suvatte, V.; et al., 1979, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 10 (3), 358-367
acquired platelet dysfunction with eosinophilia, children, postulation on possible relationships of intestinal parasites and host defense mechanism

Eosinophilia

Tanaka, J.; and Torisu, M., 1978, *J. Immunol.*, v. 120 (3), 745-749
Anisakis, detection of soluble factor selectively chemotactic for eosinophils in extract from larvae found to be active in both in vivo and in vitro chemotaxis assay systems, comparison with extract from *Ascaris suum*, results indicate that this factor may play important role in development of eosinophilia in anisakiasis

Eosinophilia

Wong, M. M.; and Suter, P. F., 1979, *Am. J. Vet. Research*, v. 40 (3), 414-420
Dirofilaria immitis, dogs (exper.) without microfilaremia, indirect fluorescent antibody titers, degree of eosinophilia, and radiologic findings before and after treatment, reinfection, necropsy findings, significance of tests, application to diagnosis

Eosinophilia

Zyngier, F. R., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 251-257
Toxocara canis and *Ascaris suum* infections compared, rabbits, monkeys, description of infection, haematological response, serum proteins, skin test with *T. canis* antigen

Eosinophilia, Tropical

Ateshian, B., 1974, *Radiol. Technol.*, v. 46 (2), 84-89

human tropical eosinophilia, differential diagnosis by radiographic means, occurrence in non-tropical areas increasing as more people engage in world travel

Eosinophilia, Tropical

Nesarajah, M. S., 1975, *Thorax*, v. 30 (5), 574-577

tropical eosinophilia, humans, pulmonary function before and after treatment with diethylcarbamazine

Eosinophilia, Tropical

Neva, F. A.; and Ottesen, E. A., 1978, *N. England J. Med.*, v. 298 (20), 1129-1131

review of current concepts of tropical (filarial) eosinophilia: clinical aspects, pathology, diagnosis

Eosinophilia, Tropical

Onadeko, B. O.; Sofowora, E. O.; and Grillo, I. A., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 432-437

diffuse radiographic pulmonary shadowing in Nigerians, tropical eosinophilia diagnosed as one of causes

Eosinophilia, Tropical

Parab, P. B.; et al., 1979, *Indian J. Med. Research*, v. 69, 122-127

tropical eosinophilia, humans, immune response to various parasitic antigens, rat mast cell degranulation and migration inhibition tests show most are sensitized to filarial antigens

Eosinophilia, Tropical

Ray, D.; and Saha, K., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 503-507

tropical pulmonary eosinophilia, human, serum immunoglobulin and complement levels, correlation with primary and relapsing stages of illness: India

Epidemiology. [See also Disease transmission; Foci; Occupational diseases; Reservoir hosts; Sociology; Vectors]

Epidemiology

Anderson, R. M.; and May, R. M., 1979, *Nature*, London (5721), v. 280, 361-367

parasitic infections as regulators of host populations, mathematical models

Epidemiology

Buck, A. A., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (2), 153-160

role of epidemiology in studies on pathogenesis of tropical diseases, review

Epidemiology

Buck, A. A.; et al., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 61-70

human poly-parasitism, epidemiological and ecological features, occurrence, frequency, and distribution of multiple infections in rural communities, age and sex patterns: Chad; Peru; Afghanistan; Zaire

Epidemiology

Buck, A. A.; et al., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 137-144

human poly-parasitism, types of combinations, relative frequency, and associations of multiple infections, age and sex patterns: Chad; Peru; Zaire

Epidemiology

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 145-155

poly-parasitism interferes with immunodiagnostic tests both directly and indirectly, examples and implications for epidemiological studies

Epidemiology

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 253-268

polyparasitism, humans, epidemiology, assessment of combined effects of multiple infections on an individual's state of health, comparative analysis of field data obtained from several tropical villages

Epidemiology

Canese, A.; et al., 1975, *Rev. Paraguaya Microbiol.*, v. 10 (1), 55-66

human intestinal parasites, statistics of extensive epidemiologic survey comparing age and sex of hosts, and socioeconomic levels in 4 geographic areas of Paraguay

Epidemiology

Chieffi, P. P.; et al., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (2), 86-91

human intestinal parasites, epidemiologic survey of children in orphanage for methods of transfer of infections (clothing, dust, jewelry, feces, hands, nails, bed linens): Londrina, Parana, Brazil

Epidemiology

Dorchies, P., 1979, *Rev. Med. Vet.*, Toulouse, v. 130 (6), 791-798, 801-809

endoparasites, pastured cattle, clinical importance, host, parasite, and climatic factors affecting occurrence and development, review

Epidemiology

Dunn, F. L., 1979, *Bull. World Health Organ.*, v. 57 (4), 499-512

behavioral aspects of control of parasitic diseases, review

Epidemiology

Dymowska, Z.; and Zembruski, K., 1977, *Przegl. Epidemiol.*, v. 31 (1), 109-113

human intestinal parasites, comparison of statistics of incidence surveys in 1974 and 1975: Poland

Epidemiology

Kagan, I. G., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 429-439

immunological aspects of diagnosis, epidemiology and experimental parasitology, presidential address before 27. Ann. Meet. Am. Soc. Trop. Med. and Hyg.

Epidemiology

Lombardo, G.; and Gemelli, M., 1977, *Riv. Parassitol.*, Roma, v. 38 (1), 129-138

parasitic disease, children, epidemiology in recent years; humoral and cellular immunity in parasitic infections, brief review

Epidemiology

Lopukhina, A. M.; et al., 1973, *Parazitologiya*, Leningrad, v. 7 (3), 270-274

two methods for estimating effect of parasites on abundance of young fish in lakes, one for parasites persisting for a long period in the host, the other for parasites persisting only a short time

Epidemiology

May, R. M.; and Anderson, R. M., 1979, *Nature*, London (5722), v. 280, 455-461

parasitic infections as regulators of host populations, mathematical models

Epidemiology

Merkusheva, I. V., 1969, *Vestsi Akad. Navuk BSSR*, s. Biial. Navuk (3), 102-107

helminthiases, role of rodents, lagomorphs and insectivores in epidemiology and epizootiology, review: Belorussia

Epidemiology

Ripert, C.; and Avouac-Borzee, F., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (2), 85-93

intestinal helminthiasis, humans, epidemiological survey and comparative study of fecal diagnostic methods: Haiti

Epidemiology

Roundy, R. W., 1978, *Social Sc. and Med.*, v. 12 (2D), 121-130

model for combining human behavior and disease ecology to assess disease hazard in a community: rural Ethiopia

Epidemiology

Schroeder, J.; and Swan, G. E., 1979, *Rhodesian Vet. J.*, v. 10 (1), 11-16

anthelmintic treatment of cattle, epizootiological and economic considerations, review

Epidemiology

Tarsitani, G.; et al., 1979, *Nuovi Ann. Ig. e Microbiol.*, v. 30 (2), 197-206

parasites of children, prevalence factors (age, sex, socio-economic class, crowding): Rome, Italy

Epidemiology, Arthropoda

Barthe Aza, A.; and Martin Alvarez, R., 1976, *Rev. San. e Hig. Pub.*, v. 50 (9-10), 929-940

Sarcoptes scabiei, epidemiologic survey of scabies outbreak (1971-1975), clinical aspects, man to man transmission, control measures: Asturias

Epidemiology, Arthropoda

Christophersen, J., 1978, *Arch. Dermat.*, Chicago, v. 114 (5), 747-750

human scabies, epidemiology, 1900-1975: Denmark

Epidemiology, Arthropoda

Church, R. E.; and Knowelden, J., 1978, *Brit. Med. J.* (6115), v. 1, 761-763

human scabies, epidemiology of suspected cases referred to local hospital, main sources of infestation were family and friends, suggested prophylactic measures to halt further spread: Sheffield, England

Epidemiology, Arthropoda

Currier, R. W.; et al., 1979, *Proc. Iowa Acad. Sc.*, v. 86 (2), 41-43

Pediculus humanus capitis, outbreak in school children, epidemiology, control: Ames, Iowa

Epidemiology, Arthropoda

Dakkak, A.; Cabaret, J.; and Oudbib, M., 1978, *Rec. Med. Vet.*, v. 154 (9), 753-760

Hypoderma lineatum and *H. bovis* in cattle, frequency and degree of infestation, age of host, characteristics of farms, location in host, seasonal variation, recommended period for curative and for preventive treatments: Sidi-Slimane (Morocco)

Epidemiology, Arthropoda

- Krafsur, E. S.; and Garcia, L., 1978, J. Med. Entom., v. 14 (6), 687-697
Cochliomyia hominivorax, comparison of 2 sterile male release methods, small dosage/narrow lane distribution appears to be more effective than large dosage/wide lane distribution; epidemiology of 1976 epizootic: south Texas

Epidemiology, Arthropoda

- Kristensen, S.; Haarløv, N.; and Mourier, H., 1978, Nord. Vet.-Med., v. 30 (10), 401-413
fleas, cats and dogs, patterns of infestation, seasonal prevalence, parasite sex ratio, probable causes of increased incidence, public health importance: Denmark

Epidemiology, Arthropoda

- Majcan, D.; Sofronic, A.; and Lalevic-Vasic, B., 1973, Srpski Arhiv Tselok. Lekar., v. 101 (11-12), 865-873
scabies, children attending dermatology clinic, incidence survey, epidemiology

Epidemiology, Arthropoda

- Palicka, P., 1979, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 28 (1), 29-37
scabies, human, epidemiological analysis of 9312 cases from 1961-1977, incidence, host age and sex, seasonal character, familial incidence, gypsy population as reservoir: Karvina district

Epidemiology, Arthropoda

- Palicka, P., 1979, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 28 (2), 108-115
scabies, human, epidemiological surveys in familial foci

Epidemiology, Arthropoda

- Steere, A. C.; Broderick, T. F.; and Malawista, S. E., 1978, Am. J. Epidemiol., v. 108 (4), 312-321
Ixodes scapularis, epidemiologic evidence and tick survey support hypothesis that erythema chronicum migrans and Lyme arthritis are tick-transmitted: southcentral Connecticut

Epidemiology, Arthropoda

- Zukowski, K., 1976, Przegl. Epidemiol., v. 30 (2), 225-233
human scabies, statistics of epidemiologic survey of incidence 1966-1970 in Poland

Epidemiology, Cestoda

- Adonajlo, A.; et al., 1976, Przegl. Epidemiol., v. 30 (1), 27-33
Taenia saginata, incidence of human taeniasis and bovine cysticercosis in rural areas, importance of migrations from villages and of locations of areas where cattle are pastured: Poznan Province, Poland

Epidemiology, Cestoda

- Adonajlo, A.; et al., 1977, Przegl. Epidemiol., v. 31 (2), 177-182
Taenia saginata, humans, analysis of epidemiologic survey, comparison of statistics of rural and urban cases, clinical manifestations: Poland

Epidemiology, Cestoda

- Arambulo, P. V. III; Cabrera, B. D.; and Tongson, M. S., 1976, Proc. 19. Ann. Meet., Am. Ass. Vet. Lab. Diagn., 123-154
taeniasis, cysticercosis, humans, endemicity, failure to demonstrate Taenia saginata in indigenous animals or to produce infection in experimental hosts suggests that human parasite is possibly a T. saginata-like species; T. solium apparently obtained through human consumption of raw pork, survey of incidence in food animals: Philippines

Epidemiology, Cestoda

- Arundel, J. H., 1979, Austral. Vet. J., v. 55 (3), 126-130
hydatid disease of animals in Australia, review

Epidemiology, Cestoda

- Baer, J. G., 1974, Parassitologia, v. 16 (1), 47-52
cestodes of man, epidemiology

Epidemiology, Cestoda

- Barbour, A. G.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 94-100
Echinococcus granulosus, humans, prevalence by age, sex, dog ownership, extent of sheep raising, and infected dog exposure, efficacy of intradermal, indirect hemagglutination, and bentonite flocculation tests for screening: Utah

Epidemiology, Cestoda

- Beard, T. C., 1979, Austral. Vet. J., v. 55 (3), 131-135
hydatid disease in man in Australia, review

Epidemiology, Cestoda

- Blasco Huelva, P. M.; and Garcia Serna, D., 1977, Rev. San. e Hig. Pub., v. 51 (9-10), 1109-1128
human echinococcosis, extensive epidemiologic survey, the relationship of human infection to frequent contact with dogs and presence of large numbers of sheep has been established: provincia de Sevilla, Espania

Epidemiology, Cestoda

- Desowitz, R. S.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 303-307
human cysticercosis, immunoepidemiologic survey to evaluate usefulness of counter-immuno-electrophoresis as diagnostic tool: endemic focus of Irian Jaya

Epidemiology, Cestoda

- Engelbrecht, H., 1975, Ang. Parasitol., v. 16 (4), 214-218
Taeniarhynchus saginatus, human, increase in incidence 1966-1973, higher rate of infection in women and in people between 21 and 50 years old, control measures: GDR

Epidemiology, Cestoda

- Ernst M., S.; and Paredes M., J., 1979, Arch. Med. Vet., Valdivia, v. 11 (1), 18-22
hydatidosis, statistical survey of hospital cases, 1970-1975, morbidity and mortality rates, epidemiological data: province of Valdivia, Chile

Epidemiology, Cestoda

- Gemmell, M. A., 1979, Austral. Vet. J., v. 55 (3), 118-125
hydatidosis control, a global view: epidemiological considerations; setting up control programs; control methods and progress

Epidemiology, Cestoda

- Gemmell, M. A.; Johnstone, P. D.; and Boswell, C. C., 1978, Research Vet. Sc., v. 24 (3), 334-338
Taenia hydatigena, dispersion pattern of eggs on pasture over time and space assessed by cyst counts in lambs grazed immediately, 36 days, or 56 days after removal of infected dogs

Epidemiology, Cestoda

- Genov, G.; et al., 1975, Ang. Parasitol., v. 16 (4), 202-207
Taeniarynchus saginatus, humans, incidence in relation to host age, sex, occupation, and geographic locality, prophylaxis: 5 districts of Bulgaria

Epidemiology, Cestoda

- Gonzalez, H.; and Campano, S., 1978, Bol. Chileno Parasitol., v. 33 (3-4), 61-65
Echinococcus granulosus, humans, slaughtered domestic animals, prevalence survey, cyst locations, host age and sex, urban vs. rural sector: County of Cauquenes, Chile

Epidemiology, Cestoda

- Guttowa, A., 1970, Acta Parasitol. Polon., v. 18 (27-41), 323-340
Diphyllobothrium latum, main foci of occurrence and their character, infection of human population and of fishes, question of first intermediate host (Copepoda), epidemiology, review: Baltic region

Epidemiology, Cestoda

- Hammerberg, B.; MacInnis, G. A.; and Hyler, T., 1978, J. Am. Vet. Med. Ass., v. 173 (11), 1462-1464
Taenia saginata cysticerci, grazing steers exposed to nonheat-treated city sewage sludge; multiple incisions of heart during meat inspection needed to increase efficiency of detection: southern Virginia

Epidemiology, Cestoda

- Marlet, J. M., 1978, Rev. Saude Pub., S. Paulo, v. 12 (1), 23-25
human cysticercosis, description of new antigen used for a cutaneous diagnostic test, antigen is considered specific, sensitive and easy to use, suggested as test of choice for epidemiologic studies

Epidemiology, Cestoda

- Pandey, V. S.; and Mbemba, Z., 1976, Ann. Soc. Belge Med. Trop., v. 56 (1), 43-46
Cysticercus cellulosae, survey of slaughtered pigs, high incidence in some areas attributed to poor sanitation, living habits, and absence of control facilities, implications for continued spread to both man and animals: Zaire

Epidemiology, Cestoda

- Schwabe, C. W., 1979, Austral. Vet. J., v. 55 (3), 109-117
hydatid disease, epidemiological aspects of planning and evaluation of control programs, review

Epidemiology, Cestoda

- Simanjuntak, G. M.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 494-497
prevalence survey of taeniasis in humans and cysticercosis in pigs, socio-ecological data indicated infections in humans to be more common in those who ate raw meat dishes rather than those who were mostly fish eaters, poor sanitary conditions and easy access of pigs to human feces perpetuated infections in both pigs and humans: Bali Island, Indonesia

Epidemiology, Cestoda

- Spruance, S. L.; Klock, L. E.; and Chang, F., 1974, Rocky Mountain Med. J., v. 71 (1), 17-23
Echinococcus granulosus, epidemiology of human hydatid disease in Utah, dogs and sheep as reservoir hosts, suggested control measures

Epidemiology, Cestoda

- Tarczynski, S., 1975, Ang. Parasitol., v. 16 (4), 208-213
Cysticercus bovis, cattle, incidence in slaughter-house surveys 1957-1972: Poland

Epidemiology, Cestoda

- Vargas, E.; Ernst, S.; and Sievers, G., 1978, Bol. Chileno Parasitol., v. 33 (1-2), 18-24
echinococcosis, epidemiologic survey of endemic area to analyze factors contributing to infections (knowledge of the disease by the population, infections of slaughter animals, abundance of dogs, feeding of dogs with infected offal, presence of migratory workers, geographic isolation of area, possible reservoir hosts): Tierra del Fuego Province, Chile

Epidemiology, Cestoda

- Walters, T. M. H., 1978, Vet. Rec., v. 102 (12), 257-259
Echinococcus granulosus, literature review of prevalence in sheep, dogs (including fox hounds), and foxes, epidemiology; recent survey of sheep and dogs to formulate control measures: Wales

Epidemiology, Cestoda

- Zembrzowski, K.; and Dymowska, Z., 1977, Przegl. Epidemiol., v. 31 (3), 341-344
Taenia solium, humans, epidemiologic survey, increasing incidence from 1971 to 1974 with evidence that increase will continue: Poland

Epidemiology, Cestoda

- Zembrzowski, K.; and Dymowska, Z., 1977, Przegl. Epidemiol., v. 31 (3), 345-349
human *Taenia* spp. and other cestodes, statistics of extensive epidemiologic survey, increasing incidence in Poland

Epidemiology, Nematoda

- Adonajlo, A., 1977, Przegl. Epidemiol., v. 31 (1), 125-127
human trichinosis, comparison of epidemiologic statistics for the years 1971 thru 1975: Poland

Epidemiology, Nematoda

- Al Tawil, N., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (4), 483-485
Wuchereria bancrofti, humans, microfilaremia survey in 27 villages of Vientiane province in Laos

Epidemiology, Nematoda

- Armour, J.; et al., 1979, Vet. Rec., v. 105 (22), 500-503
Ostertagia ostertagi, cattle, epidemiology of naturally acquired infections studied through 2 successive grazing seasons with particular reference to faecal egg counts, herbage larval numbers, worm burdens, and plasma pepsinogen levels: south west Scotland

Epidemiology, Nematoda

- Bairden, K.; Parkins, J. J.; and Armour, J., 1979, Vet. Rec., v. 105 (2), 33-35
Ostertagia ostertagi, occurrence of clinical disease in pretreated calves grazed on silage aftermath from late July, pattern of herbage larval counts suggests delayed emergence of overwintered L3 larvae from soil as most likely source of infection: pastures at Glasgow University Veterinary School

Epidemiology, Nematoda

- Bejsovec, J., 1976, Ang. Parasitol., v. 17 (4), 196-207
Syngamus trachea in domestic and free-living birds, influence of ecological factors on occurrence and seasonal dynamics with particular attention to effect of large-scale farming: Czechoslovakia

Epidemiology, Nematoda

- Borgsteede, F. H. M., 1978, Vet. Parasitol., v. 4 (4), 385-391
 nematodes in cattle, post-parturient rise of egg-output, epidemiological consequences

Epidemiology, Nematoda

- Brinkmann, U. K., 1978, Tropenmed. u. Parasitol., v. 29 (1), 49-50
Wuchereria bancrofti, method for standardizing observed microfilarial densities to eliminate effect of periodicity in epidemiological comparisons

Epidemiology, Nematoda

- Carne, B.; and Laigret, J., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 53-55
Wuchereria bancrofti var. *pacifica*, human, 2 case reports, one demonstrating microfilaria which persisted for 40 years, and one demonstrating mosquito infection acquired from patient with ultra-low level microfilaria, epidemiological implications

Epidemiology, Nematoda

- Carmel, D. K.; and Todd, A. C., 1979, Vet. Med. and Small Animal Clin., v. 74 (7), 1019, 1022-1026
 nematodes, dairy cows, prevalence and distribution in environment of 3 farms, role of management practices: Wisconsin

Epidemiology, Nematoda

- Chen, S. N.; et al., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (8), 411-416
Angiostrongylus cantonensis, prevalence survey using purified whole worm skin test antigen, epidemiologic observations: Taiwan

Epidemiology, Nematoda

- Chiejina, S. N.; and Clegg, F. G., 1978, Brit. Vet. J., v. 134 (6), 541-550
Ostertagia ostertagi, cattle, epidemiology, herbage infection, disease incidence, serum pepsinogen levels (useful reflection of seasonal incidence), weather, 1974-1976: East Midlands, England

Epidemiology, Nematoda

- Christensen, B. M., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 226-228
Dirofilaria immitis, dogs, prevalence survey conducted in 1975 and 1976 in area of Ames, Iowa where parasite recovery from field-collected *Aedes trivittatus* mosquitoes had occurred, relationship in time between recovery of 'infective stage' from mosquitoes and appearance of patent infections in susceptible dog population

Epidemiology, Nematoda

- Conlogue, G.; et al., 1979, J. Parasitol., v. 65 (1), 105-108
Capillaria hepatica in *Rattus norvegicus*, infection rate, host age and sex, seasonal variation, possible public health implications: Hartford, Connecticut

Epidemiology, Nematoda

- da Costa, F. C., 1976, Rev. Portug. Clin. e Terap., v. 2 (3), 131-140
Ascaris lumbricoides, *Trichocephalus dispar*, humans, statistics of prevalence survey, therapeutic trials with pyrantel pamoate: Portugal

Epidemiology, Nematoda

- Dario, J. G.; Gatmaitan, O. M.; and Aglibut, F. B., 1975, Philippine Agric., v. 59 (5-6), 127-136
Cooperia sp., *Trichostrongylus* sp., *Bunostomum* sp., *Haemonchus* sp., backyard cattle, seasonal distribution, incidence greatly influenced by rainfall, soil type, and age of host, epidemiology: Batangas province, Philippines

Epidemiology, Nematoda

- De Sole, G.; and Kloos, H., 1976, Parassitologia, v. 18 (1-3), 53-65
 onchocerciasis, human, prevalence in 3 ecological zones, different transmission patterns: southwest Ethiopia

Epidemiology, Nematoda

- Duncan, J. L.; et al., 1979, Vet. Rec., v. 104 (13), 274-278
Dictyocaulus viviparus, vaccinated, unvaccinated, and tracer calves exposed to infection while grazing, various periods over two years, pasture larval counts, epidemiological, clinical, and parasitological observations, importance of overwintered lungworm larvae as source of disease: West of Scotland farm

Epidemiology, Nematoda

- Eckert, J., 1977, Monatsh. Vet.-Med., v. 32 (23), 894-898
 trichostrongylosis, cattle, epizootiology, literature review; present possibilities of medicamentous control

Epidemiology, Nematoda

Engbaek, K.; and Larsen, S. O., 1979, Ugeskr. Laeger, v. 141 (17), 1128-1131

Giardia lamblia, *Entamoeba coli*, *Trichuris trichiura*, socio-epidemiological study of infected families, emphasis on living conditions, social standards, and clinical symptoms: Denmark

Epidemiology, Nematoda

English, A. W., 1979, Austral. Vet. J., v. 55 (7), 299-305

equine strongyles, free-living stages in feces and on pasture, seasonal changes in rates of development and survival: Moggill, Brisbane, Queensland

Epidemiology, Nematoda

English, A. W., 1979, Austral. Vet. J., v. 55 (7), 306-309

equine strongyles, infective larvae, survival and migration on herbage with reference to season, climatic conditions, and types of pasture: southern Queensland

Epidemiology, Nematoda

Ewert, A.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 486-490

Onchocerca volvulus, human focus, follow-up report of 1965 investigation, response to Mazzotti test given to limited numbers of persons living upstream from original focus suggests that infection may be widespread: Colombia

Epidemiology, Nematoda

Gateff, C.; Lemariniere, G.; and Labusquiere, R., 1972, Ann. Soc. Belge Med. Trop., v. 52 (2), 103-112

intestinal helminths, African schoolchildren, systematic thiabendazole therapy over 8-month period, increased weight gains with cost of therapy less than if given nutritional supplements, favorable impact on epidemiology: Yaounde, Cameroun

Epidemiology, Nematoda

Gettinby, G.; et al., 1979, Vet. Rec., v. 105 (3), 57-59

Ostertagia ostertagi, calves, mathematical model to predict level of pasture contamination and occurrence of clinical disease, good correlation between predicted and observed events

Epidemiology, Nematoda

Gibbs, H. C., 1979, Am. J. Vet. Research, v. 40 (2), 227-231

gastrointestinal nematodes, calves, winter survival of larvae on pasture more important than carrier calves as source of infection; calves surviving clinical disease are resistant to infection the following year: Maine

Epidemiology, Nematoda

Glickman, L. T.; Schantz, P. M.; and Cypess, R. H., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 254-258

Toxocara canis, patients with diagnostic ELISA titres vs. patients with presumed visceral larva migrans but less or no detectable antibody, clinical findings (including leucocytosis, eosinophilia, increased anti-A or anti-B isohaemagglutinin titre, elevated serum IgG level), epidemiological characteristics (age, sex, northern vs. southern residence, history of pica)

Epidemiology, Nematoda

Grove, D. I.; Valeza, F. S.; and Cabrera, B. D., 1978, Bull. World Health Organ., v. 56 (6), 975-984

Wuchereria bancrofti, dynamics of filariasis in village inhabitants, clinical, parasitological, immunological, and social aspects: village of Paraiso, Province of Catanduanes, Philippines

Epidemiology, Nematoda

Gupta, R. P.; and Gibbs, H. C., 1976, Haryana Agric. Univ. J. Research, v. 6 (3-4), 205-207

Dictyocaulus viviparus, description of inhibited fourth and fifth stage larvae recovered from calves (lungs) (nat. or exper.) in autumn after four weeks in parasite-free conditions

Epidemiology, Nematoda

Hashiguchi, Y.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 543-548

Onchocerca volvulus microfilarial antigen skin test, useful in diagnosis and as epidemiological tool to assess effectiveness of control programs: Guatemala

Epidemiology, Nematoda

Hoagland, K. E.; and Schad, G. A., 1978, Exper. Parasitol., v. 44 (1), 36-49

Necator americanus, *Ancylostoma duodenale*, life history data compiled and then analyzed in light of 2 ecological theories (r and K selection; body size and energy constraints on reproduction), implications that different reproductive strategies in 2 sympatric parasites have for epidemiological parasitology, value of population ecology in epidemiological investigations

Epidemiology, Nematoda

Hubert, J.; Kerboeuf, D.; and Gruner, L., 1978, Bull. G.T.V. (6), 1-16

gastrointestinal nematodes, ovine, epidemiology, effect on host growth and plasma pepsinogen levels: Limousin

Epidemiology, Nematoda

Jacobs, D. E., 1978, Vet. Ann. (18), 220-224

Uncinaria stenocephala, dogs, prevalence in kennels influenced by host age, bionomics, epidemiology, review: United Kingdom

Epidemiology, Nematoda

Kerboeuf, D., 1978, Rec. Med. Vet., v. 154 (10), 865-874

gastro-intestinal strongylosis, ruminants, proposed theories for explaining 'spring-rise' in elimination of helminth eggs, review with new theory

Epidemiology, Nematoda

Kostrzewski, J. M.; et al., 1975, Przegl. Epidemiol., v. 29 (1), 57-64

trichinosis, human, epidemiologic survey, 59 persons: Zielona Gora

Epidemiology, Nematoda

Kozlov, D. P., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 36-40

[*Trichinella*], chief source of infection of pinnipeds is dead land or marine mammals in sea, on its ice cover, or on shores, review

- Epidemiology, Nematoda
Kuhlow, F.; and Zielke, E., 1978, Tropenmed. u. Parasitol., v. 29 (3), 371-381
Wuchereria bancrofti, human, epidemiology in savannah vs. forest regions, dynamics and intensity of transmission, vector survey: Liberia
- Epidemiology, Nematoda
van der Kuyp, E., 1978, Surinaams Med. Bull., v. 2 (1), 16-39
human hookworm, extensive epidemiologic survey and control campaign conducted 1956-1972: rural Surinam
- Epidemiology, Nematoda
Ladds, P. W.; Nitisuwirjo, S.; and Goddard, M. E., 1979, Austral. Vet. J., v. 55 (10), 455-462
Onchocerca gibsoni, slaughtered cattle, infection rate and nodule characteristics in relation to geographic region, season, breed, sex, and age of host: Australia
- Epidemiology, Nematoda
Laurence, B. R., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 603-604 [Letter]
Brugia, Wuchereria, differences in behaviour of infective larvae in mosquito vectors may be of epidemiological significance in disease transmission
- Epidemiology, Nematoda
Lawrence, D. N.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 991-996
Mansonella ozzardi, Amerindian populations, age group- and village-specific prevalence, diagnosis by peripheral blood lymphocyte cultures compared with Giemsa-stained peripheral blood smears: states of Amazonas and Acre, Brazil
- Epidemiology, Nematoda
Lodha, G. C.; and Chaturvedi, S. K., 1974, Rajasthan Med. J., v. 13 (4), 233-236
human dracunculiasis, epidemiologic survey, suggested control measures: Rikhabdeo village areas, Udaipur, India
- Epidemiology, Nematoda
Madsen, H., 1976, Acta Parasitol. Polon., v. 24 (11-19), 143-158
Trichinella spiralis, new views on life cycle with remarks on epidemiology and population dynamics; synonymy
- Epidemiology, Nematoda
Maertens, K.; Rossetti, C.; and Zola, A., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (6), 683-699
Onchocerca volvulus and other filariasis, humans, extensive prevalence survey of area of low endemicity: area of Inga River, Democratic Republic of the Congo
- Epidemiology, Nematoda
Marzochi, M. C. de A.; and Carneiro, J. da R., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (1), 31-35
enteroparasites, 2 population groups, factors involved in dissemination (sanitation, social, economic and cultural standards, dietary habits): city of Ribeirao Preto, Sao Paulo, Brazil
- Epidemiology, Nematoda
Marzochi, M. C. de A.; and Chieffi, P. P., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (1), 36-40
Necator americanus, Ancylostoma duodenale, humans from periurban and rural populations, epidemiology, distribution: municipality of Londrina, Parana, Brazil
- Epidemiology, Nematoda
Nansen, P.; et al., 1978, Vet. Sc. Commun., v. 2 (3), 193-205
trichostrongylid, grazing cattle, factors influencing fluctuations in herbage contamination, epidemiological consequences of intensification of animal husbandry methods: Denmark
- Epidemiology, Nematoda
Nathan, M. B.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 299-302
Mansonella ozzardi, humans, prevalence and distribution in coastal north Trinidad, W.I.
- Epidemiology, Nematoda
Nawalinski, T.; Schad, G. A.; and Chowdhury, A. B., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1152-1161
hookworms and other intestinal helminths, children, prevalence and intensity over 22-month period, host age, sex, and religion, seasonal distribution: rural West Bengal
- Epidemiology, Nematoda
Nawalinski, T.; Schad, G. A.; and Chowdhury, A. B., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1162-1173
hookworms, acquisition and loss by children over 22-month study period, host age, sex, and religion, seasonal patterns, extrapolation of estimates for larval efficiency and adult life spans: rural West Bengal
- Epidemiology, Nematoda
Neppert, J., 1978, Tropenmed. u. Parasitol., v. 29 (1), 36-38
onchocerciasis, human, serological survey, correlation with epidemiological data and microfilarial rates: Liberia, West Africa
- Epidemiology, Nematoda
Nishino, C., 1977, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 46 (2), 73-88
Anisakis, humans, epidemiologic survey, comparison of skin test, indirect hemagglutination, and serum IgE levels in randomly selected local inhabitants and in patients with anisakiasis, higher positive rates in workers in fishing industries than in those in farming industries: Hokkaido
- Epidemiology, Nematoda
Odelram, H., 1973, Scand. J. Infect. Dis., v. 5 (4), 293-298
trichinosis, human, 15 cases reported within 1 month, epidemiologic survey could not locate source of infection: Sweden
- Epidemiology, Nematoda
Ogunsusi, R. A., 1979, Research Vet. Sc., v. 26 (2), 189-192
Haemonchus contortus, Trichostrongylus spp., sheep, termination of arrested development, time of year: northern Nigeria

- Epidemiology, Nematoda
Ogunsusi, R. A., 1979, Research Vet. Sc., v. 26 (3), 320-323
trichostrongylid larvae, pasture infectivity for tracer lambs throughout period of one year, weather data: Guinea Savanna, Nigeria
- Epidemiology, Nematoda
Okon, E. D.; and Enyenihi, U. K., 1977, Trop. Animal Health and Prod., v. 9 (1), 7-10
Haemonchus contortus, factors influencing development and survival of larvae on pasture; rainfall appeared to be the most important: Ibadan, Western Nigeria
- Epidemiology, Nematoda
Ollerenshaw, C. B.; Graham, E. G.; and Smith, L. P., 1978, Vet. Rec., v. 103 (21), 461-465
parasitic gastroenteritis, lambs, forecasting incidence in late summer, correlation with rainfall of current year and dryness of previous late summer and autumn: England and Wales
- Epidemiology, Nematoda
Partono, F.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 400-407
Brugia malayi, humans, epidemiologic and vector survey; possible importance of cats in transmission: Kalimantan, Indonesia
- Epidemiology, Nematoda
Partono, F.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 452-458
Brugia malayi, human, prevalence, density and clinical manifestations of filariasis in the Palu Valley of Central Sulawesi (Celebes), Indonesia
- Epidemiology, Nematoda
Partono, F.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 459-463
Brugia malayi, Wuchereria bancrofti, filariasis prevalence survey of persons residing in 8 villages in the Province of West Kalimantan
- Epidemiology, Nematoda
Partono, F.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 910-915
Brugia timori, human, epidemiological and clinical features in newly established village: Karakuak, West Flores, Indonesia
- Epidemiology, Nematoda
Philippon, B., 1978, L'onchocercose humaine en Afrique de l'Ouest. Vecteurs agent pathogene epidemiologie lutte, 197 pp., illus.
human onchocerciasis, Simulium spp. vectors, epidemiology, extensive review: Afrique de l'Ouest
- Epidemiology, Nematoda
Pimentel Neto, M., 1976, Pesquisa Agropec. Brasil., s. Vet., v. 11 (9), 101-114
Haemonchus placei, dairy calves, epizootiology: seasonal fluctuations, bioclimatographs, host nutritional state, Haemonchus/Trichostrongylus interaction, hypobiosis and spring rise phenomena: Barra Mansa, State of Rio de Janeiro, Brazil
- Epidemiology, Nematoda
Pott, J. M.; Jones, R. M.; and Cornwell, R. L., 1978, Internat. J. Parasitol., v. 8 (5), 331-339
parasitic gastroenteritis and bronchitis in untreated grazing calves, epidemiology (pasture larval counts, fecal egg and larval counts, clinical assessment, weight gains, worm counts in tracer calves), evidence that resistance to Cooperia and Dictyocaulus was acquired more readily than to Ostertagia, inhibition of development of Ostertagia and Cooperia became evident at end of trial period
- Epidemiology, Nematoda
Pott, J. M.; Jones, R. M.; and Cornwell, R. L., 1979, Internat. J. Parasitol., v. 9 (2), 153-157
parasitic gastroenteritis and bronchitis in grazing calves, effect of low level feed incorporation of morantel in early season
- Epidemiology, Nematoda
Prost, A.; Hervouet, J. P.; and Thylefors, B., 1979, Bull. World Health Organ., v. 57 (4), 655-662
O[nchocerca] volvulus, human, prevalence rate as means of defining 3 levels of endemicity: Volta basin
- Epidemiology, Nematoda
Rep, B. H.; and Bos, R., 1979, Tijdschr. Diergeneesk., v. 104 (19), 747-758
Uncinaria stenocephala, dogs (exper.), worm population and topographical distribution in host intestine, prepatent and patent period, rhythm of daily worm-egg counts; egg and larval survival at low temperatures; natural infections in foxes and experimental cross-infections between dogs and foxes, epidemiological implications: Netherlands
- Epidemiology, Nematoda
Santiago, M. A. M.; Benevenga, S. F.; and da Costa, U. C., 1976, Pesquisa Agropec. Brasil., s. Vet., v. 11 (9), 1-7
helminthiasis, sheep, epidemiology, monthly incidence, proposed control scheme: Itaquí county, Rio Grande do Sul, Brazil
- Epidemiology, Nematoda
Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 24-28
ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics
- Epidemiology, Nematoda
Self, L. S.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 581-587
Wuchereria bancrofti, human, epidemiology (entomological studies, parasitological and clinical surveys): Jakarta, Indonesia
- Epidemiology, Nematoda
Simionescu, F.; and Talos, V., 1974, Ang. Parasitol., v. 15 (2), 101-105
Dictyocaulus viviparus in cattle fattening complexes in non-grazing animals, sources of infection, warmth and humidity favorable for larval development

Epidemiology, Nematoda

- Sinniah, B.; Singh, M.; and Anuar, K., 1979, J. Helminth., v. 53 (2), 147-152
Capillaria hepatica in rats, prevalence in relation to host age, sex, and habitat, localized foci of infection: Malaysia

Epidemiology, Nematoda

- Smith, H. J., 1979, Canad. Vet. J., v. 20 (7), 184-185
Oesophagostomum quadrispinulatum, *O. dentatum*, failure to demonstrate overwinter survival on pastures, contamination of pastures by carrier pigs with subsequent transmission to susceptible pigs

Epidemiology, Nematoda

- Straat, H., 1979, Trop. Animal Health and Prod., v. 11 (2), 71-83
 trichostrongylosis, dairy calves, control: rotational grazing vs. set stocking, daily removal of feces from fields, nutritional level: Kenya

Epidemiology, Nematoda

- Tada, I.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 67-71
 onchocerciasis, human, epidemiological survey, prevalence in relation to altitude, host age and sex distribution, relation between microfilaria rate and nodule rate, examination of anterior chamber of eye, location of onchocercal nodules, comparison of diagnostic measures: San Vicente Pacaya, Guatemala

Epidemiology, Nematoda

- Tarazona, J. M.; et al., 1977, An. Inst. Nac. Invest. Agrar., s. Hig. y San. Animal (3), 1976-77, 11-21
Haemonchus contortus, *Trichostrongylus*, *Ostertagia*, sheep, periods of good transmission potential deduced on basis of bioclimatographs: various agrarian regions of Spain

Epidemiology, Nematoda

- Thomas, R. J.; and Starr, J. R., 1978, Vet. Rec., v. 103 (21), 465-468
 sheep nematodes, pattern of infective larvae on pasture, correlation between time of summer peak and cumulative rainfall, possible use in forecasting onset of major infection in lambs

Epidemiology, Nematoda

- Thomas, R. J.; and Waller, P. J., 1979, Research Vet. Sc., v. 26 (2), 209-212
 abomasal nematodes, lambs, epidemiology during winter and spring: infective pasture larval availability, parasite population changes and inhibition patterns: Northumberland

Epidemiology, Nematoda

- Thylefors, B.; Philippon, B.; and Prost, A., 1978, Tropenmed. u. Parasitol., v. 29 (3), 346-354
Onchocerca volvulus, humans from 4 villages in endemic areas, correlations between quantity of transmission and intensity of infection, applications for vector control programs: Sudan-savanna areas in Upper-Volta and Ivory Coast

Epidemiology, Nematoda

- Tongson, M. S.; et al., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 39-48
 parasitic gastro-enteritis, epidemiological pattern in calves born during dry season vs. wet season, genera of strongyles that affect calves at certain ages and seasons of year, suggested deworming practices: ANSA Cattle and Crop Farms, Philippines

Epidemiology, Nematoda

- Tongson, M. S.; Arambulo, P. V. III; and Trovela, V., 1975, Philippine J. Vet. Med., v. 14 (1), 83-97
 strongyles, calves raised under type II and type III climatic zones, monthly mean ova counts: Philippines

Epidemiology, Nematoda

- Tongson, M. S.; and Balediata, E., 1972, Philippine J. Vet. Med., v. 11 (2), 63-72
 gastrointestinal nematodes, calves, monthly mean egg counts, climatic factors and acquired immunity as factors: BAI Alabang Stock Farm, province of Rizal

Epidemiology, Nematoda

- Tongson, M. S.; and Caspe, C. E., 1975, Philippine J. Vet. Med., v. 14 (1), 98-105
 gastro-intestinal nematodes of cattle, variation in incidence in Oriental Mindoro vs. Palawan, Philippines

Epidemiology, Nematoda

- Tongson, M. S.; and Trovela, V., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 49-54
 parasitic gastroenteritis, epidemiology: monthly strongyle ova counts of calves, effects of season, climate, and host age, suggested deworming practices: Verandia Ranch, Philippines

Epidemiology, Nematoda

- Tongson, M. S.; and Trovela, V., [1977], Philippine J. Vet. Med., v. 15 (1-2), 1976, 55-63
 longevity of strongyle larvae in cattle dung pats on pasture, larvae persisted longer in pats deposited during dry vs. rainy season

Epidemiology, Nematoda

- Volna, L.; et al., 1979, Ceskoslov. Epidemiol., Mikrobiol., Imunol., v. 28 (1), 48-56
Ascaris lumbricoides, *Trichuris trichiura*, children, incidence by climatic zones and in different districts, distribution of familial foci by type of dwelling: North Moravian region

Epidemiology, Nematoda

- Waller, P. J.; and Thomas, R. J., 1978, Internat. J. Parasitol., v. 8 (4), 275-283
Ostertagia spp., epidemiology in natural parasite populations in sheep raised under intensive conditions, climatic conditions, egg counts and pasture larval availability, seasonal worm burdens, inhibition of larval development: north-east England

Epidemiology, Nematoda

- Wang, K. Y., 1971, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 70 (1), 36-48
Ascaris lumbricoides, hookworm, *Trichuris trichiura*, humans, prevalence survey, epidemiology, urban vs. rural populations: Hsing-Chuang Cheng

Epidemiology, Nematoda

Ward, W. B.; et al., 1979, Trop. and Geog. Med., v. 31 (1), 155-164

guinea worm, survey of villagers from 5 communities during epidemics to determine disease-associated attitudes, beliefs, and practices, differences between 2 ethnic groups, implications for health education: Southern Ghana

Epidemiology, Nematoda

Welch, J. S.; Dobson, C.; and Freeman, C., 1979, Austral. Vet. J., v. 55 (6), 265-274

Dirofilaria immitis, *Toxocara canis*, dogs, epidemiological survey, host age, sex, and breed, immunodiagnosis (3 immunofluorescence tests, in vitro lymphocyte blastogenesis); prevalence of serum antibody in man proportional to incidence of canine infections: Queensland; Central Australia

Epidemiology, Nematoda

Wenlock, R. W., 1979, J. Trop. Med. and Hyg., v. 82 (5), 90-98

malaria, hookworm, *Schistosoma haematobium*, humans in rural environment, epidemiology in relation to malnutrition and host age, importance as public health problems: Zambia

Epidemiology, Nematoda

Wery, M.; et al., 1976, Ann. Soc. Belge Med. Trop., v. 56 (2), 95-124

Onchocerca volvulus, humans, epidemiologic survey, parasitological, ophthalmological and immunological aspects: Lusambo, Kasai Oriental, Zaire

Epidemiology, Nematoda

Zavala-Velazquez, J.; Bolio-Cicero, A.; and Pinzon-Cantarell, J., 1976, SPM Salud Pub. Mexico, v. 18 (4), 735-742

Ancylostoma spp. causing creeping eruption in humans, clinical and epidemiological study, thiabendazole therapeutically effective: Yucatan, Mexico

Epidemiology, Nematoda

Zielke, E.; and Chlebowsky, H. O., 1979, Tropenmed. u. Parasitol., v. 30 (1), 91-96

Wuchereria bancrofti, humans, distribution and prevalence survey: north-western savanna area of Liberia, West Africa

Epidemiology, Nematoda

Zielke, E.; and Chlebowsky, H. O., 1979, Tropenmed. u. Parasitol., v. 30 (2), 153-165

Wuchereria bancrofti, changes in microfilariemia in a rural population, survey done in 1973 and repeated in 1976/1977: savanna area in Upper Lofa in the hinterland of Liberia

Epidemiology, Nematoda

Zurliiski, P., 1977, Vet. Sbirka, v. 75 (4), 35-38

Nematodirus, sheep, sources of infection (soil, grass, water)

Epidemiology, Protozoa

Adam, K. M. G.; and Blewett, D. A., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 417-428

Babesia divergens, cattle, serological survey using indirect fluorescent antibody test, occurrence of antibody in the population and distribution of infected herds: Scotland

Epidemiology, Protozoa

de Alencar, J. E.; et al., 1975, Rev. Brasil.

Malariol., v. 26-27, 1974-1975, 5-26

Trypanosoma cruzi, statistics of epidemiologic survey, dogs and cats emphasized as reservoir hosts for human infections: State of Ceara (County of Russas), Brazil

Epidemiology, Protozoa

de Alencar, J. E.; et al., 1975, Rev. Brasil.

Malariol., v. 26-27, 1974-1975, 27-53

human leishmaniasis, epidemiologic survey, 10-year period: State of Ceara, Brazil

Epidemiology, Protozoa

Amato Neto, V.; et al., 1976, Rev. Brasil.

Clin. e Terap., v. 5 (11), 413-416

Trypanosoma cruzi, humans, analysis of sensitivity of rapid flocculation for diagnosis, recommended for screening blood donors and for epidemiologic surveys

Epidemiology, Protozoa

Andrews, J. D., 1968, Proc. 1967 National Shellfish Ass., v. 58, 23-26

Minchinia nelsoni in *Crassostrea virginica* (susceptible imports, native oysters and progeny), seasonal patterns of morbidity and mortality, survival of early generations in MSX-prevalent areas suggests that acquired resistance is involved; hypotheses on origin of infection and life cycle of pathogen: Virginia waters

Epidemiology, Protozoa

Aparacio Garrido, J.; Cour Boveda, M. I.; and

Otero de Becerra, J., 1978, Rev. Iber. Parasitol., v. 38 (1-2), 343-365

toxoplasmosis, patients of psychiatric hospital, incidence of positive indirect immunofluorescence reactions, epidemiology

Epidemiology, Protozoa

Aust-Kettis A.; and Thoren, G., 1974, Scand.

J. Infect. Dis., v. 6 (4), 349-353

Giardia lamblia, inter- and intrafamilial infection involving 5 families, case reports, epidemiology, index case thought to be 3-year-old child from Israel that had recently been adopted by family members: Lindesberg, Sweden

Epidemiology, Protozoa

Baker, J. R., 1974, Ciba Found. Symp., n.s.

(20), 29-50

African sleeping sickness, epidemiology, review

Epidemiology, Protozoa

Baldelli, B., 1974, Parassitologia, v. 16 (1), 21-45

Toxoplasma gondii, life cycle, epidemiology, review

Epidemiology, Protozoa

Balestrini, C.; and Rebollo, O. N., 1976, Rev.

Inst. Invest. Med., San Salvador, v. 5 (2), 141-144

Trypanosoma cruzi, *T. rangeli*, human blood samples being tested for malaria found to be positive also for trypanosomiasis, epidemiologic survey, determination of possible vectors: El Salvador

Epidemiology, Protozoa

- Baruffa, G.; and Alcantara Filho, A., 1975, Rev. Goiana Med., v. 21 (1-2), 11-21
Trypanosoma cruzi, humans, epidemiologic observations on multiple acute cases of Chagas disease, analysis of occupational and educational aspects, and standard of living of infected persons

Epidemiology, Protozoa

- Baruzzi, R. G., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 93-104
Toxoplasma gondii, epidemiologic survey of indians of the Upper Xingu River (indirect immunofluorescence), comparison with 2 other surveys made in different geographic areas and in populations of more advanced areas of civilization (Sabin-Feldman dye test), little significant differences: Brazil

Epidemiology, Protozoa

- Bejsovec, J., 1978, Ang. Parasitol., v. 19 (2), 76-85
Eimeria phasiani and *E. colchici* in *Phasianus colchicus*, dynamics of incidence dependent upon host biotope, host movements, season, temperature, and humidity: Mittelbohen

Epidemiology, Protozoa

- Bienzie, U.; Ebert, F.; and Dietrich, M., 1978, Tropenmed. u. Parasitol., v. 29 (2), 188-193
Leishmania tropica major, outbreak of cutaneous leishmaniasis in non-immune population living in endemic area, clinical features, incubation period and seasonal incidence, immunity and re-infection, treatment: German employees living in Al-Hofuf, eastern Saudi Arabia

Epidemiology, Protozoa

- Blewett, D. A.; and Adam, K. M. G., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 513-522
Babesia divergens, cattle, data for host age and antibody incidence and titre analyzed using 3 epidemiological models to estimate rates of gain and loss of antibody: Scotland

Epidemiology, Protozoa

- Bourn, D.; and Scott, M., 1978, Trop. Animal Health and Prod., v. 10 (4), 191-203
trypanosomiasis, successful use of Zebu work oxen in agricultural development of tsetse infested land, environmental conditions, epizootiology of *trypanosomiasis* in oxen and in *Glossina morsitans*, strategic drug use (alternation of diminazene aceturate and isometamidium to control *trypanosomes*; radoxanide to control helminths): Wollega province, western Ethiopia

Epidemiology, Protozoa

- Bray, R. S., 1974, Ciba Found. Symp., n.s. (20), 87-105
leishmaniasis, epidemiology, review with emphasis on zoonotic cutaneous leishmaniasis of Ethiopia

Epidemiology, Protozoa

- Brink, J. D.; de Wet, J. S.; and van Rensburg, A. J., 1975, South African Med. J., v. 49 (35), 1441-1443
Toxoplasma gondii, serological survey of pregnant women by racial and age groups; results in relation to epidemiology, complications, diagnosis and treatment: Bloemfontein area

Epidemiology, Protozoa

- Buettiker, W.; and Lewis, D. J., 1979, Tropenmed. u. Parasitol., v. 30 (2), 220-229
Leishmania tropica, ecological studies of human dermal leishmaniasis epidemic, correlated with survey for possible *Phlebotomus* vectors and reservoir hosts: Hofuf, Eastern Saudi Arabia

Epidemiology, Protozoa

- Burney, M. I.; Wazir, Y.; and Lari, F. A., 1979, Trop. Doctor, v. 9 (3), 110-116
leishmaniasis, human visceral, longitudinal study in northern areas of Pakistan

Epidemiology, Protozoa

- Burridge, M. J.; et al., 1979, J. Am. Vet. Med. Ass., v. 175 (9), 964-967
Toxoplasma gondii, wild animals, serologic survey: Florida

Epidemiology, Protozoa

- Buyst, H., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 349-359
Trypanosoma brucei, *T. rhodesiense*, human, prehistorical and historical background of *trypanosomiasis* in Africa with special reference to the Luangwa Valley

Epidemiology, Protozoa

- Cabrera, B. D.; and Arambulo, P. V. III, 1977, Acta Trop., v. 34 (3), 265-279
Plasmodium spp., epidemiologic review: Philippines

Epidemiology, Protozoa

- Canese, A., 1974, Rev. Paraguay Microbiol., v. 9 (1), 45-51
Chagas disease, statistics of epidemiologic and vector survey: Paraguay

Epidemiology, Protozoa

- Canese, A.; et al., 1975, Rev. Paraguay Microbiol., v. 10 (1), 47-54
Chagas disease, statistics of epidemiologic survey taken during 1974 in various areas of Paraguay

Epidemiology, Protozoa

- Carnevale, P.; et al., 1978, Bull. World Health Organ., v. 56 (1), 147-154
Anopheles gambiae, aggressiveness in relation to age and sex of human subjects, implications for malaria epidemiology

Epidemiology, Protozoa

- Cedillos, R. A.; et al., 1976, Rev. Inst. Invest. Med., San Salvador, v. 5 (2), 131-134
Trypanosoma cruzi, human, extensive epidemiological survey of 25 rural communities of El Salvador

Epidemiology, Protozoa

- Cerisola, J. A.; and Alvarez, M., 1977, Rev. Neurol. Argentina, v. 3 (3), 411-419
Trypanosoma cruzi, human, statistics of prevalence survey in area of high endemicity, review of epidemiological investigative methods, study of cardiomyopathies of chagasic origin: Argentina

Epidemiology, Protozoa

- Chan, K. L.; Goh, K. T.; and Koh, T. S., 1976, Singapore Med. J., v. 17 (3), 124-132
malaria, human, large post-war outbreak in highly urbanized area, epidemiology, vector survey, outbreak traced to at least one imported case from neighboring country where *malaria* is endemic: Whampoa-Kallang area of Singapore

- Epidemiology, Protozoa
 Chance, M. L.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 533-542
 Leishmania, identification of 68 strains from Aethiopian zoogeographical region on basis of biochemical and serological taxonomy (nuclear and kinetoplast DNA buoyant density, excreted factor serotypes, enzyme variant types), epidemiological implications
- Epidemiology, Protozoa
 Collins, G. H.; and Charleston, W. A. G., 1979, N. Zealand Vet. J., v. 27 (4), 80-84
 feral *Felis catus*, survey on distribution, feeding, and breeding, probably important source of sporozoan infections for domesticated animals: New Zealand
- Epidemiology, Protozoa
 Cooper, A. G.; and Hillier, V. F., 1975, Pub. Health, London, v. 89 (5), 213-222
 human vaginal trichomoniasis, statistics of epidemiologic survey of women with abnormal cervical cytologic findings
- Epidemiology, Protozoa
 Corrier, D. E.; and Guzman, S., 1977, Trop. Animal Health and Prod., v. 9 (1), 47-51
Anaplasma marginale, *Babesia bigemina*, age at which calves in endemic area first become infected, packed cell volumes and clinical symptoms, mild clinical response and rapid recovery indicate that protection of native calves through immunization or other procedures prior to natural exposure would be of questionable value: north coast area of Colombia
- Epidemiology, Protozoa
 Couch, J. A.; and Rosenfield, A., 1968, Proc. 1967 National Shellfish Ass., v. 58, 51-59
Minchinia nelsoni and *M. costalis* in *Crassostrea virginica* introduced from non-infected area, incidence, annual and seasonal prevalence, mortality, sporulation, effect on host reproductive capacity, comparison with Delaware and lower Chesapeake Bays, practical implications for manipulation of introduced oysters: Chincoteague Bay, at Franklin City, Virginia
- Epidemiology, Protozoa
 Coura, J. R.; et al., 1971, Rev. Soc. Brasil. Med. Trop., v. 5 (3), 123-129
 T[rypanosoma] cruzi, epidemiologic survey of autochthonous human infection, dispersion of infected *Triatoma infestans* in climatic environment thought to be unfavorable for development of this vector: Baixada fluminense, Municipio de Caxias, Estado do Rio de Janeiro
- Epidemiology, Protozoa
 Coura, J. R.; and Petana, W. B., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (2), 83-90
 Trypanosoma cruzi, epidemiologic survey of non-endemic area for evidence of Chagas disease, triatomines inhabiting housing, humans (mostly children) and 2 dogs found infected by serologic and xenodiagnostic methods: Caxias, Rio de Janeiro State, Brazil
- Epidemiology, Protozoa
 Crevenna, P. B., 1977, SPM Salud Pub. Mexico, v. 19 (3), 411-420
 E[ntamoeba] histolytica, humans, epidemiology, diagnostic methods, review
- Epidemiology, Protozoa
 da Cunha, A. S.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (5), 289-300
 Entamoeba histolytica, comparative epidemiological survey, rural vs. urban areas, highest prevalence directly related to lowest sanitary conditions, clinical manifestations, associated parasitism: Brazil
- Epidemiology, Protozoa
 Dain, A. L., 1973, Rev. Fac. Cien. Med. Univ. Nac. Cordoba, v. 31 (3), 227-235
 Chagas disease, statistics of survey of potential blood donors found to have positive sera, recommendations for possible control measures: Cordoba, Argentina
- Epidemiology, Protozoa
 Das, S. R., 1974, Ann. Soc. Belge Med. Trop., v. 54 (4-5), 327-332
 Naegleria aerobia flagellate stage, pathogenicity, bearing on epidemiology of exogenous amoebiasis
- Epidemiology, Protozoa
 Dedet, J. P., 1979, Bull. Inst. Pasteur, Paris, v. 77 (1), 49-82
 visceral and cutaneous leishmaniasis, humans, animals, epidemiology, extensive review: Algerie, Maroc, et Tunisie
- Epidemiology, Protozoa
 Del Vaglio, B., 1974, Rassegna Internaz. Clin. e Terap., Napoli, v. 54 (24), 1491-1493
 Trichomonas vaginalis, epidemiologic survey for evidence of urinary and vaginal trichomoniasis infections in women living in Caserta Province, Italy
- Epidemiology, Protozoa
 Dias, M.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 403-410
 Leishmania sp., survey of wild and domestic animals as reservoir hosts, results suggest active role of dogs: Caratinga, Minas Gerais State, Brazil
- Epidemiology, Protozoa
 Dover, A. S., 1972, South. Med. J., v. 65 (2), 215-218
 malaria outbreak among campers in sparsely-populated ranching region, epidemiologic search revealed presence of infected Mexican migrant worker and anopheline mosquitoes thus providing environment for secondary spread of infection to indigenous population: Texas
- Epidemiology, Protozoa
 Draeger, N.; and Mehltitz, D., 1978, Tropenmed. u. Parasitol., v. 29 (2), 223-233
 Trypanosoma spp., wildlife, prevalence determined by parasitological and/or serological techniques, correlations with high and low tsetse fly density areas (for buffalo and lechwe) and with host age (for buffalo): Northern Botswana
- Epidemiology, Protozoa
 Dubrovskii, Iu. A., 1978, [Gerbillinae and the natural foci of cutaneous leishmaniasis], 184 pp., illus., maps
 cutaneous leishmaniasis, epizootiology, natural foci, role of Gerbillinae

- Epidemiology, Protozoa
Dutertre, J., 1976, Ann. Soc. Belge Med. Trop., v. 56 (3), 127-141
malaria, epidemiological model applied to transmission, includes both human and entomological factors
- Epidemiology, Protozoa
Dymon, M.; and Starzyk, J., 1977, Acta Biol. Cracov., s. Zool., v. 20 (1), 17-25
Toxoplasma gondii, wild hamster (*Cricetus cricetus*) highly susceptible to infection especially when parasite introduced intranasally, epidemiological implications
- Epidemiology, Protozoa
Engbaek, K.; and Larsen, S. O., 1979, Ugeskr. Laeger, v. 141 (17), 1128-1131
Giardia lamblia, Entamoeba coli, Trichuris trichiura, socio-epidemiological study of infected families, emphasis on living conditions, social standards, and clinical symptoms: Denmark
- Epidemiology, Protozoa
Esch, G.; et al., 1976, Tr. Am. Micr. Soc., v. 95 (4), Finley Mem. Issue, pt. 2, 687-693
Epistylis-Aeromonas complex, centrarchid fish, incidence, spatial distribution of lesions, host size class (age), body condition, seasonal periodicity, influence of thermal effluent on disease: Par Pond reservoir, Savannah River Plant near Aiken, South Carolina
- Epidemiology, Protozoa
Esuruoso, G. O., 1975, Bull. Animal Health and Prod. Africa, v. 23 (3), 323-332
trypanosomiasis, N'dama cattle, observations on outbreaks, association with various epizootiological factors: western Nigeria
- Epidemiology, Protozoa
Fernandes, W. J.; et al., 1972, Rev. Patol. Trop., v. 1 (2), 267-276
human toxoplasmosis, statistics of epidemiologic survey of 2 districts of Goiania (one group comprised of workers in a slaughter house and their families; one group living in area with poor sanitary facilities): Brazil
- Epidemiology, Protozoa
Ferraroni, J. J.; and Hayes, J., 1977, Acta Amazonica, v. 7 (3), 401-406
Plasmodium falciparum, outbreak in 2 indian tribes, Anopheles darlingi only vector mosquito present, tribal differences in infection based on proximity to vector population: Roraima, Brazil
- Epidemiology, Protozoa
Ferraroni, J. J.; and Marzochi, M. C. de A., 1978, Acta Amazonica, v. 8 (1), 83-89
Toxoplasma gondii, prevalence in domestic and wild animals and humans, indirect hemagglutination test: Manaus, Amazonas (also indigenous Indians from Territory of Roraima)
- Epidemiology, Protozoa
Forattini, O. P.; et al., 1979, Rev. Saude Pub., S. Paulo, v. 13 (2), 123-146
Trypanosoma cruzi, epidemiological and ecological aspects in intensive agricultural and cattle breeding region, environmental changes seem to have favored Triatominae by increasing available ecotopes: municipio de Guaira, Brasil
- Epidemiology, Protozoa
Frank, W., 1974, Ann. Soc. Belge Med. Trop., v. 54 (4-5), 343-349
Limax-amoebae, cold-blooded vertebrates as possible means of spreading parasite from one pond to another
- Epidemiology, Protozoa
de Freitas, C. A., 1975, Rev. Brasil. Malar. iol., v. 26-27, 1974-1975, 61-92
Trypanosoma cruzi, humans, discussion of epidemiology and control measures in Brazil
- Epidemiology, Protozoa
Frezil, J. L.; and Carnevale, P., 1976, Cahiers O.R.S.T.O.M., s. Entom. Med. et Parasitol., v. 14 (4), 307-313
Trypanosoma gambiense, epidemiology, problem of reservoirs in continuing transmission, man (symptomless carriers) as possible reservoir: Afrique Centrale
- Epidemiology, Protozoa
Fuller, G. K.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 417-431
kala-azar, humans, extensive epidemiologic survey using the leishmanin skin test: south-west Ethiopia
- Epidemiology, Protozoa
Gajanana, A.; et al., 1979, Indian J. Med. Research, v. 70, 417-423
partial suppression of Plasmodium gallinaceum and P. vivax in Aedes aegypti and Anopheles stephensi doubly infected with Nosema algerae and Plasmodium, epidemiological significance
- Epidemiology, Protozoa
Galuzo, I. G., 1977, Protozoology, v. 3, 159-168
Toxoplasma gondii, epidemiology, review
- Epidemiology, Protozoa
Ghorbani, M.; Edrissian, G. H.; and Assad, N., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 369-371
Toxoplasma gondii, human, serological survey using indirect fluorescent antibody technique, 55.7% positive, no significant difference between sexes, highest antibody level in population 2-19 years old: northern Iran
- Epidemiology, Protozoa
Gimeno de Sande, A., 1975, Rev. San. e Hig. Pub., v. 49 (2), 109-140
human malarias, epidemiologic survey of diagnosed cases that have occurred in Spain since 1964 (all malarias thought to have been eradicated as of that date); all reported cases since that time were found to be imported by persons from endemic areas
- Epidemiology, Protozoa
Guglielmino, S.; et al., [1978], Riv. Parassitol., Roma, v. 38 (2-3), 1977, 285-294
Toxoplasma gondii, women, presence of antibodies correlated with various disorders, significant risk of infection through consumption of uncooked or underdone meat but not through contact with animals: area urbana di Catania e provincia
- Epidemiology, Protozoa
Haessig, B., 1977, Schweiz. Med. Wchnschr., v. 107 (18), 635-638
human amoebiasis and malaria, increasing incidence in non-endemic areas, epidemiologic review

Epidemiology, Protozoa

Han, T. W., 1978, Research Rep., Office Rural Develop., Min. Agric. and Fish., Korea, v. 20, 53-88

theileriosis, cattle, historical review, seasonal and host age incidence, duration of parasitaemia, relapse time; transmission of *Theileria* sp. to cattle using *Boophilus microplus* and *Haemaphysalis longicornis*; pathogenicity and immunogenicity of Korean and Japanese strains of *T. sergenti* compared: Korea

Epidemiology, Protozoa

Harrison, H. R.; Crowe, C. P.; and Fulginiti, V. A., 1979, Pediatrics, Am. Acad. Pediat., v. 64 (6), 923-928

Entamoeba histolytica, children, hepatic abscesses, clinical and epidemiologic features, case reports

Epidemiology, Protozoa

Hayes, J.; and Ferraroni, J. J., 1978, Acta Amazonica, v. 8 (3), 397-407

malaria, human, cases along newly opened roads, particularly from survey north of rio Urubu, recommendations for settlements along future roads: Amazon basin, Brasil

Epidemiology, Protozoa

Hedman, P.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 317-325

malaria, humans, pocket of controlled infection in a holoendemic region, evaluation of local malaria programme by malariometric study: Yekepa, Liberia

Epidemiology, Protozoa

Hellesnes, I.; Mohn, S. F.; and Melhuus, B., 1978, Acta Vet. Scand., v. 19 (4), 574-587

Toxoplasma gondii, epidemiology and food-hygienic significance, prevalence of antibodies and cysts in swine: south-east Norway

Epidemiology, Protozoa

Hoff, R.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 461-466

Trypanosoma cruzi, rural population, age-specific prevalence rates of parasitemia (detected by blood cultures and xenodiagnosis) vs. seroreactivity (measured by complement fixation and indirect immunofluorescence tests): northeast Brazil

Epidemiology, Protozoa

Iversson, L. B.; et al., 1979, Rev. Saude Pub., S. Paulo, v. 13 (2), 159-167

Leishmania donovani, autochthonous case in 10-year-old child, extensive epidemiological survey, unable to identify vector: zona urbana de Diadema, municipio da Grande Sao Paulo, Brasil

Epidemiology, Protozoa

Jacobs, M. R.; and Mason, P. R., 1978, South African Med. J., v. 53 (16), 619-621

Toxoplasma gondii antibodies, human, prevalence survey by areas and ethnic groups: Natal, Eastern Cape, Western Cape, South West Africa, and Botswana regions of Southern Africa

Epidemiology, Protozoa

Keystone, J. S.; Krajden, S.; and Warren, M. R., 1978, Canad. Med. Ass. J., v. 119 (3), 241-248

Giardia lamblia, epidemiology of outbreak in day-care nurseries, transmission apparently person-to-person, more Canadian children were symptomatic and infected than were immigrant children attending the nurseries, infections cleared with metronidazole or atabrine, control measures suggested including treatment of all infected children regardless of whether they were symptomatic: Toronto, Canada

Epidemiology, Protozoa

Kobayashi, A.; et al., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (5), 350-355

Toxoplasma, humans (pig-breeders and their families), swine, stray cats, antibody prevalence: Hamaoka district, Shizuoka Prefecture, Japan

Epidemiology, Protozoa

Konjevic, P., 1979, Acta Parasitol. Iugoslaviaca, v. 9 (2), 97-103

toxoplasmosis, human, incidence, significance of age, eating of raw meat, contact with domestic animals, indirect fluorescent antibody test: Kutina, Croatia, Yugoslavia

Epidemiology, Protozoa

Kotecki, N. R., 1977, Przegl. Epidemiol., v. 31 (1), 11-15

Pneumocystis carinii, small children, problems of transmission in hospitals and children's homes: Poland

Epidemiology, Protozoa

Krafsur, E. S.; and Armstrong, J. C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 348-356

Plasmodium falciparum, risk of contracting malaria as derived from entomological data, comparison with parasitologically-estimated infection rates and seasonal distribution in children vs. adults: Gambela, western Ethiopia

Epidemiology, Protozoa

Krogstad, D. J.; et al., 1978, Ann. Int. Med., v. 88 (1), 89-97

Entamoeba histolytica, epidemiologic investigations of suspected foci of human amoebiasis occurring in the United States from 1971-1974, findings suggest diagnostic problems and misdiagnosis, suggests that stool examinations be supplemented with serology and microscopic diagnosis

Epidemiology, Protozoa

Lainson, R.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 193-204

Trypanosoma cruzi, extensive survey of wild animals, triatomine bugs and humans for evidence of Chagas disease: State of Para, north Brazil

Epidemiology, Protozoa

Lainson, R.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 239-242

cutaneous leishmaniasis, observations on epidemiology in north Para State, Brazil

- Epidemiology, Protozoa
Lanotte, G.; et al., 1978, Ann. Parasitol., v. 53 (1), 33-45
leishmaniasis, analysis of canine enzootic, sampling methods, relationship between prevalence of infection and density of sandfly vector, phyto-ecologic map: France
- Epidemiology, Protozoa
Lanotte, G.; et al., 1979, Ann. Parasitol., v. 54 (3), 277-295
Leishmania donovani in dogs (nat. and exper.), clinical, parasitological, and immunological comparisons, epidemiological significance of different clinical forms: Cevennes, southern France
- Epidemiology, Protozoa
Laveissiere, C., 1976, Cahiers O.R.S.T.O.M., s. Entom. Med. et Parasitol., v. 14 (4), 359-367
trypanosomiasis, human, hypothesis on transmission without tsetse flies (antitubercular treatment stimulated virility of trypanosomes in carriers, transmitted mechanically by mosquitoes or bedbugs): Ouahigouya, Republique de Haute-Volta
- Epidemiology, Protozoa
Lazos Rosales, L. A., 1975, Rev. Med. Hosp. Gen., Mexico, v. 38 (8), 555-565
human amoebiasis, epidemiology: Mexico
- Epidemiology, Protozoa
Liebisch, A.; and Gillani, S., 1979, Deutsche Tierarztl. Wchnschr., v. 86 (4), 149-152
Babesia canis, dogs, experimental transmission by native German Rhipicephalus sanguineus, enzootic foci could develop in Germany
- Epidemiology, Protozoa
Lopez, C. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1128-1132
Giardia lamblia, outbreak in large group of American tourists who travelled to island of Madeira in Oct. 1976, drinking water and food implicated as probable sources of infection: Portugal
- Epidemiology, Protozoa
Lord, R. D., 1976, Scient. Pub. (334), Pan Am. Health Organ., 86-93
Trypanosoma hippicum, importance of bats as reservoir hosts in epidemiology of zoonoses
- Epidemiology, Protozoa
McGregor, I. A., 1978, Israel J. Med. Sc., v. 14 (5), 523-536
malaria, epidemiological aspects, symposium presentation: failure of eradication programs; malaria in pregnancy; interaction between parasite and human erythrocyte
- Epidemiology, Protozoa
McGregor, I. A.; and Williams, K., 1978, Israel J. Med. Sc., v. 14 (6), 697-706
malaria, value of gel-precipitation test in monitoring endemicity in a rural African village, parasite and precipitin prevalence rates by age, climatic variation and extensive drug usage as factors implicated in changes in prevalence: The Gambia
- Epidemiology, Protozoa
Malik, G. Q.; Khatoon, N.; and Khan, M. A., 1976, Rawal Med. J., v. 5 (4), 134-139
Leishmania tropica, statistics of epidemiologic survey of human dermal infections, suggested control measures, therapy with mepacrine: Multan
- Epidemiology, Protozoa
Marzochi, M. C. de A.; and Carvalheiro, J. da R., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (1), 31-35
enteroparasites, 2 population groups, factors involved in dissemination (sanitation, social, economic and cultural standards, dietary habits): city of Ribeirao Preto, Sao Paulo, Brazil
- Epidemiology, Protozoa
Mayrink, W.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 123-137
dermal leishmaniasis, humans and dogs, epidemiology, negative search for infected phlebotomines and wild mammals: Rio Doce Valley, State of Minas Gerais, Brazil
- Epidemiology, Protozoa
Menezes, J. A.; dos Reis, V. L. L.; and Vasconcellos, J. A., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (3), 143-151
human American mucocutaneous leishmaniasis, epidemiology of small outbreak in municipality of Cordeiro, state of Rio de Janeiro
- Epidemiology, Protozoa
Meuwissen, J. H. E. T., 1978, Israel J. Med. Sc., v. 14 (6), 692-696
malaria, 4 yearly surveys in Surinam with indirect hemagglutination test, general comments on seroepidemiologic surveys and mathematical models for assessment of malaria transmission rates, symposium presentation
- Epidemiology, Protozoa
Miron, C. A., 1978, Agric. El Salvador, v. 17 (1), 12-24
anaplasmosis, bovine, prevalence, complement fixation test, no difference in regard to age, sex or breed of host: San Miguel, El Salvador
- Epidemiology, Protozoa
Molineaux, L.; Dietz, K.; and Thomas, A., 1978, Bull. World Health Organ., v. 56 (4), 565-571
Plasmodium falciparum, epidemiological evaluation of mathematical model, baseline data tested against data collected over 3-year period during which propoxur and fenitrothion were used for mosquito control, relatively good agreement between actual observations and model: Garki District, Nigeria and Kisumu District, Kenya
- Epidemiology, Protozoa
Molnar, K., 1979, Acta Vet., Budapest, v. 27 (3), 207-216
Myxobolus pavlovskii in cultured fish, incidence, infection experiments, epizootiology, histopathology: Hungary
- Epidemiology, Protozoa
Molyneux, D. H.; Baldry, D. A. T.; and Fairhurst, C., 1979, Acta Trop., v. 36 (1), 53-65
human West African trypanosomiasis, suggested role of wind-dispersed Glossina in distribution, entomological and epidemiological evidence, implications for control operations, significance of these ideas in relation to origin of Trypanosoma brucei rhodesiense in Ethiopia and of T. evansi outside the tsetse zone

Epidemiology, Protozoa

- Mott, K. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1116-1122
Trypanosoma cruzi, household distribution of seroreactivity analyzed in relation to style of house construction and distribution of *Panstrongylus megistus*: northeast Brazil

Epidemiology, Protozoa

- Mott, K. E.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1123-1127
Trypanosoma cruzi, infection of domestic dogs and cats in relation to household seroreactivity and household *Panstrongylus megistus* infestation: northeast Brazil

Epidemiology, Protozoa

- Nabli, B., 1977, Arch. Inst. Pasteur Tunis, v. 54 (1-2), 39-50
 toxoplasmosis, human and animal population (cattle, sheep, goats, horses, donkeys, poultry, dogs, laboratory animals), prevalence of antitoxoplasma antibodies, immunofluorescent and agglutination methods, epidemiology discussed: Tunisia

Epidemiology, Protozoa

- Nadim, A.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 25-28
 kala-azar, human, geographical distribution, age and sex distribution, clinical findings, wild carnivores as probable reservoir hosts and *Phlebotomus major* as probable vector: Iran

Epidemiology, Protozoa

- Neal, R. A.; and Miles, R. A., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (5), 325-332
Trypanosoma cruzi, indirect hemagglutination test, adapted for use with capillary blood dried on filter paper, useful for epidemiologic field surveys

Epidemiology, Protozoa

- Ngoka, J. M.; and Mutinga, M. J., 1978, East African Med. J., v. 55 (7), 328-331
 human visceral leishmaniasis, epidemic outbreak 1972-1977, landscape epidemiology: Machakos District, Kenya

Epidemiology, Protozoa

- Nikol'skii, S. N.; Nikiforenko, V. I.; and Pozov, S. A., 1977, Veterinariia, Moskva (4), 71-75
Piroplasma jakimovi, cattle, morphological and biological comparison with *P. bigeminum*, epizootiology (*Ixodes ricinus* as main vector; frequent association with leptospirosis), treatment: Siberia

Epidemiology, Protozoa

- Overdulve, J. P., 1978, Proc. K. Nederl. Akad. Wetensch., s. C, Biol. and Med. Sc., v. 81 (1), 1-18
Toxoplasma gondii, non-immunized and immunized cats (primary oral infection followed by challenge), excretion of oocysts, and its role in epidemiology of toxoplasmosis; cats disseminate *T. gondii* mainly by remote and indirect transmission and overall pollution rather than by direct contact between cats and humans

Epidemiology, Protozoa

- Padchenko, I. K., 1970, Parazitologiya, Leningrad, v. 4 (4), 394-396
Lambia, infestation rate in humans of different age groups in rural and urban areas, high infestation rate in preschool rural children may be explained by contact with farm dogs which carry natural infections of *L. canis* and were proved experimentally susceptible to *L. intestinalis*: Ukraine

Epidemiology, Protozoa

- Parre, J.; and Simovart, H. E., 1977, Eesti Põllumaj. Akad. Teadusl. Toode Kogum. (104), 114-118
 histomoniasis, turkeys, age and seasonal dynamics in relation to epizootiology; disease outbreaks in young birds under stress conditions; nitazol satisfactory, trichopol good prophylactic and therapeutic effect

Epidemiology, Protozoa

- Perry, B. D.; et al., 1979, Vet. Rec., v. 104 (11), 231-234
 toxoplasmosis, sheep, field outbreak, sero-epidemiological study, indirect haemagglutination test: Colombia, imported from Britain

Epidemiology, Protozoa

- Petter, F., 1978, Compt. Rend. Acad. Sc., Paris, v. 287, s. D, Sc. Nat. (4), 261-264
 leishmaniasis, epidemiological implications of discovery of *Proechimys cuvieri* sp. n.: French Guiana

Epidemiology, Protozoa

- Piesman, J.; et al., 1979, J. Med. Entom., v. 15 (5-6), 537-540
Babesia microti not found in *Odocoileus virginianus* naturally or experimentally inoculated, nor in vector *Ixodes dammini*: Nantucket and Naushon Islands, Massachusetts

Epidemiology, Protozoa

- Ponce, C.; Trochez, H.; and Zeledon, R., 1975, Rev. Biol. Trop., v. 22 (2), 1974, 289-303
Trypanosoma cruzi, *T. rangeli*, single and mixed infections, epidemiologic survey of area infested with *Rhodnius prolixus*: Departamento Francisco Morazan, Honduras

Epidemiology, Protozoa

- Ramsdale, C. D.; and Haas, E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 570-580
Plasmodium vivax, epidemiologic factors relative to recent resurgence of autochthonous human infection in Turkey

Epidemiology, Protozoa

- Remiannikova, T. N., 1973, Parazitologiya, Leningrad, v. 7 (3), 255-260
Leishmania tropica, [*Rhombomys opimus*], prevalence of infection and clinical features undergo significant seasonal and annual changes and therefore cannot be used as criteria for typification of natural foci of cutaneous leishmaniasis: Turkmenia

Epidemiology, Protozoa

- Rev. Med. Chile, 1978, v. 106 (4), 319-331
Entamoeba histolytica, current status of human amoebiasis (physiopathology, clinical forms, diagnosis, treatment, epidemiology), anniversary presentation at the Academy of Medicine of Chile

- Epidemiology, Protozoa
Ricciardi, I. D.; et al., 1978, Rev. Microbiol., Sao Paulo, v. 9 (4), 181-187
Toxoplasma gondii, human, seroepidemiological survey, prevalence in relation to geographic region, age, sex, rural vs. urban residence, skin color, blood group, occupation, contact with animals: Brazil
- Epidemiology, Protozoa
Ricciardi, I.; and Sanches, R. C. H., 1977, An. Microbiol., Rio de Janeiro, v. 22, 1976-1977, 141-165
P[lasmodium] vivax, method for determination of periods of disease transmission by analyses of regional or local climatograms: Brazil
- Epidemiology, Protozoa
Riemann, H. P.; et al., 1978, J. Wildlife Management, v. 42 (1), 198-202
Toxoplasma gondii, prevalence of antibodies among wild carnivores, regional distribution, Lynx rufus and feral Felis domestica important hosts for reinforcing infection in wildlife areas: California
- Epidemiology, Protozoa
Rogers, R. J.; Blight, G. W.; and Knott, S. G., 1978, Austral. Vet. J., v. 54 (3), 115-120
Anaplasma marginale in Bos taurus and B. indicus types, clinical outbreaks, serological survey, seasonal distribution, age, sex, and breed of host, high prevalence in Boophilus microplus infested areas: southern Queensland
- Epidemiology, Protozoa
Roy, R. G.; and Ghosh, R. B., 1979, Indian J. Med. Research, v. 69, 739-745
P[lasmodium] vivax, malarionetric indices in resurgent malaria, relationship of annual parasite incidence with child spleen and parasite rates: Karnataka State, India
- Epidemiology, Protozoa
Ruebush, T. K. II; et al., 1978, Am. J. Dis. Child., v. 132 (2), 143-148
Pneumocystis carinii pneumonia in immunosuppressed patients, epidemiologic survey in hospital outbreak in children with acute lymphocytic leukemia suggests that acquisition and spread of infection may be related to contact with hospital environment; risk of infection appeared related to intensity of chemotherapy and to a period of heightened susceptibility during therapy
- Epidemiology, Protozoa
Saf'ianova, V. M., 1974, Parazitologiya, Leningrad, v. 8 (4), 336-347
Leishmaniasis, characterization of nidi on basis of "transmissible factor" (species composition of sandfly vectors)
- Epidemiology, Protozoa
Schenone, H.; Villarroel, F.; and Alfaro, E., 1978, Bol. Chileno Parasitol., v. 33 (1-2), 2-7
Trypanosoma cruzi, epidemiologic survey in rural and suburban areas, positive xenodiagnosis found in both humans and their domestic animals, infected T. infestans collected from dwellings, study of housing conditions favoring the presence of triatomids: Chile
- Epidemiology, Protozoa
Shaw, J. J., 1977, Protozoology, v. 3, 119-128
Trypanosoma evansi, description, epizootiology with special reference to lower Amazon region
- Epidemiology, Protozoa
Sherlock, I. A.; Muniz, T. M.; and Almeida, S. P., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (5), 267-269
Trypanosoma cruzi, guinea pigs (Cavia porcellus) found naturally infected in house infested with Panstrongylus megistus vectors, possible epidemiologic importance of guinea pigs as reservoirs if bred domestically in endemic areas: State of Bahia, Brazil
- Epidemiology, Protozoa
Sousa, O. E., 1972, Rev. Biol. Trop., v. 20 (2), 167-179
Trypanosoma cruzi, T. rangeli, epidemiologic survey, vectors, reservoir hosts: Panama
- Epidemiology, Protozoa
Sulzer, A. J.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 76-83
Plasmodium malariae, P. vivax, sero-epidemiologic survey (value of indirect immunofluorescence test emphasized) of coinciding foci of human malaria and leptospirosis in the Peruvian Amazon area
- Epidemiology, Protozoa
Timchenko, A. D., 1972, Parazitologiya, Leningrad, v. 6 (6), 509-512
Eimeria spp., survival of non-sporulated and sporulated oocysts on soil surface and at various depths under conditions prevailing in southern Ukraine during winter to spring period, implications for prophylaxis and control of coccidiosis
- Epidemiology, Protozoa
Tin, F., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 552-557
Toxoplasma gondii, Plasmodium, young school children living in 2 areas of different phases of an antimalarial control program, survey for presence of malaria and toxoplasmosis antibodies using the indirect fluorescent antibody test: Burma
- Epidemiology, Protozoa
Tizard, I. R.; Harmeson, J.; and Lai, C. H., 1978, Canad. J. Comp. Med., v. 42 (2), 177-185
Toxoplasma gondii, prevalence of serum antibodies in farm animals, companion animals, and wild rodents and birds, significance to epizootiology of toxoplasmosis, high infection rate of meat, necessity of cooking meat properly and other sanitation measures: southern Ontario
- Epidemiology, Protozoa
Tomaszunas, S., 1974, Przegl. Epidemiol., v. 28 (2), 139-148
human malarias, nomadic migration, local customs, low levels of education and lack of sufficient health services contribute to spread of infections and difficulties in establishing control measures in Afghanistan

Epidemiology, Protozoa

- Tribouley, J.; et al., 1978, Ann. Parasitol., v. 53 (1), 21-31
toxoplasmosis, human, seroepidemiologic survey, complement fixation and passive haemagglutination tests, age of host, possible sources of infection: Guadeloupe; Martinique

Epidemiology, Protozoa

- Vargas, D. L., 1976, SPM Salud Pub. Mexico, v. 18 (3), 601-610
differentiation of vector Triatomidae by veins in wings, application to epidemiology of human trypanosomiasis: Mexico

Epidemiology, Protozoa

- Weinstok, H.; et al., 1979, Bull. Pan Am. Health Organ., v. 13 (3), 257-263
Plasmodium vivax, P. falciparum, human, survey, indirect immunofluorescence test, prevalence of antibodies: Costa Rica

Epidemiology, Protozoa

- Wenlock, R. W., 1979, J. Trop. Med. and Hyg., v. 82 (5), 90-98
malaria, hookworm, Schistosoma haematobium, humans in rural environment, epidemiology in relation to malnutrition and host age, importance as public health problems: Zambia

Epidemiology, Protozoa

- Wery, M.; et al., 1976, Ann. Soc. Belge Med. Trop., v. 56 (3), 169-182
Entamoeba histolytica, human, epidemiologic survey using immunofluorescence and fecal smears: Zaire

Epidemiology, Protozoa

- Wery-Paskoff, S.; Renoirte, R.; and Wery, M., 1974, Ann. Soc. Belge Med. Trop., v. 54 (1), 65-71
amoebiasis, intestinal and hepatic human forms, diagnosis by indirect immunofluorescence of dried blood samples, value in seroepidemiologic studies

Epidemiology, Protozoa

- Whitlaw, J. T., jr.; and Chaniotis, B. N., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 873-881
Trypanosoma cruzi, ecological survey of triatomine vectors disclosed close association of Rhodnius pallescens and Triatoma dimidiata with widely distributed palm tree species; Didelphis marsupialis, Tamandua tetradactyla, and Proechimys semispinosus seem to be principal animal reservoirs: Panama

Epidemiology, Protozoa

- Williamson, W. A.; and Gilles, H. M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 323-328
malarimetric study of young children (seasonal distribution, age-specific parasite prevalence, splenic indices): Malumfashi, Northern Nigeria

Epidemiology, Protozoa

- World Health Organization, 1975, WHO Chron., v. 29 (12), 474-481
human malaria, report of worldwide situation as of 1974

Epidemiology, Protozoa

- Wright, R. A.; and Vernon, T. M., 1976, Rocky Mountain Med. J., v. 73 (4), 208-211
Giardia lamblia, epidemic of giardiasis among employees of mountain resort lodge, epidemiologic investigation implicated lodge's untreated water supply as source of infection: Colorado

Epidemiology, Protozoa

- Wyatt, E. J., 1978, J. Fish Dis., v. 1 (3), 233-240
Myxobolus insidiosus in Oncorhynchus tshawytscha, epizootiology, factors affecting prevalence of infection in naturally contaminated waters, no infection could be induced in susceptible fish in disease free water supply: Oregon

Epidemiology, Protozoa

- Zeledon, R., 1974, Ciba Found. Symp., n.s. (20), 51-85
Chagas' disease, epidemiology, modes of transmission, and reservoir hosts, review

Epidemiology, Trematoda

- Abdel-Wahab, M. F.; et al., 1979, Lancet, London (8136), v. 2, 242-244
changing pattern of schistosomiasis, 1935-1979, predominance of Schistosoma mansoni over S. haematobium, Biomphalaria greatly outnumbered Bulinus, public health implications: Difra, Egypt

Epidemiology, Trematoda

- Albaret, J. L.; and Leger, N., 1978, Ann. Parasitol., v. 53 (6), 617-622
Schistosoma mansoni, miracidial chetotoxic index, changes during adaptation of human strain to white mice, use in determining human vs. murine character of natural infections in Guadeloupe, possibility of murine strains infecting humans

Epidemiology, Trematoda

- Anderson, R. M.; and May, R. M., 1979, Parasitology, v. 79 (1), 63-94
Schistosoma spp. infections within snail populations, prevalence, spatial and temporal heterogeneity, duration of larval development and its dependence on temperature, mortality rates of infected and uninfected hosts; comparison of observed patterns with model predictions; new age-prevalence model, predictions compared with observed patterns; implications for overall transmission dynamics

Epidemiology, Trematoda

- Badie, A., 1978, Ann. Parasitol., v. 53 (4), 373-385
Dicrocoelium lanceolatum, sheep, annual activity cycle of intermediate hosts (Cionella lubrica, Formica nigricans and F. cunicularia), seasonal variation in number of parasitized ants, effect of climatic factors (temperature, rainfall), application to forecasting method: Limousin

Epidemiology, Trematoda

- Bennike, T.; Frandsen, F.; and Mandahl-Barth, G., 1976, Scand. J. Infect. Dis., v. 8 (3), 223 [Letter]
Schistosoma mansoni, increasing incidence in local inhabitants, studies suggest that schistosomiasis has now been implanted as an autochthonous disease in Kinshasa region of Zaire

Epidemiology, Trematoda

- Bennike, T.; Frandsen, F.; and Mandahl-Barth, G., 1976, Ann. Soc. Belge Med. Trop., v. 56 (6), 419-437
schistosomiasis, humans, extensive malacologic, biologic, clinical, and epidemiological survey, concluded that *S. mansoni* has been established as autochthonous disease in Kinshasa, Zaire

Epidemiology, Trematoda

- Boray, J. C., 1978, Vet. Parasitol., v. 4 (2), 127-141
Fasciola hepatica (Australian strain, sheep origin), relative susceptibility of indigenous and exotic *Lymnaea* spp. and parthenogenetic development of parasite in these species, effect of snail size, potential impact of introduced exotic snails for epidemiology of fascioliasis: Australia

Epidemiology, Trematoda

- Borda, C. E.; and Pellegrino, J., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (6), 377-382
Schistosoma mansoni in *Didelphis azarae azarae* (exper.), easily infected but only a few non-viable eggs are passed with feces, probably unimportant in epidemiology

Epidemiology, Trematoda

- Bousfield, D., 1979, Nature, London (5714), v. 279, 573-574
Schistosoma mansoni, human, rapid increase in size of endemic area, migrant workers as major factor, control programs, review: Brazil

Epidemiology, Trematoda

- Bozdech, V.; and Moronfoye, I. S., 1974, Ang. Parasitol., v. 15 (3), 141-150
Schistosoma haematobium, humans, incidence, host age and sex, hematuria: Kaduna, northern Nigeria

Epidemiology, Trematoda

- Bradley, D. J.; and May, R. M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 262-273
schistosomiasis, consequences of introducing aggregation into models of transmission, emphasis on Macdonald's model

Epidemiology, Trematoda

- Cabrera, B. D.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 86-92
Schistosoma japonica, human, prevalence survey: Irosin and 8 neighboring towns, Sorsogon Province, Republic of Philippines

Epidemiology, Trematoda

- Carvalho, O. dos S.; Milward de Andrade, R.; and Cortes, M. I. N., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (1), 27-35
Schistosoma mansoni, extensive survey for possible role of rodent reservoir hosts in the epidemiology of human schistosomiasis; rodents thought to become parasitized when using brooks and lake tributaries containing cercariae shed by planorbid snails living in these waters: Lago da Pampulha, Belo Horizonte, Brazil

Epidemiology, Trematoda

- Coura, J. R.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (4), 193-198
schistosomiasis *mansoni*, statistics of survey of infected persons who had lived permanently outside of endemic areas from 1-30 years without possibility of reinfection, length of infections, pathology, therapy: Brazil

Epidemiology, Trematoda

- De Sole, G.; Lemma, A.; and Mazengia, B., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 928-930
Schistosoma haematobium, human, prevalence survey: lower Wabi Shebelle Valley, south-eastern Ethiopia

Epidemiology, Trematoda

- Farag, H. F.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (9-10), 188-190
Fasciola spp., focus of human infection in Nile Delta, epidemiological survey, incidence of eggs in human and domestic animal feces, identification of species infecting humans not yet determined: Egypt

Epidemiology, Trematoda

- Fuller, G. K.; Lemma, A.; and Hailé, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 526-530
Schistosoma mansoni, epidemiologic survey of resident population, snail vectors, and wild animals after reports of infection in tourists and campers to Omo National Park, importance of infection to future developmental plans: Omo National Park, southwest Ethiopia

Epidemiology, Trematoda

- Goll, P. H.; and Scott, J. M., 1978, Brit. Vet. J., v. 134 (6), 551-555
Fasciola hepatica, sheep, *Lymnaea truncatula* population density determined by adequate rainfall, parasite transmission mainly 'overwintering' variety, 'summer infection' and acute fascioliasis outbreaks in above average rainfall: Central Highlands, Ethiopia

Epidemiology, Trematoda

- Hira, P. R., 1975, Ann. Soc. Belge Med. Trop., v. 55 (6), 633-642
Schistosoma mattheei, humans, 3 case reports, differentiation from *S. intercalatum* on basis of ova morphology, clinical presentation, and epidemiology; *Bulinus africanus* is probable vector: Zambia

Epidemiology, Trematoda

- Holland-Moritz, W.; Nickel, S.; and Hiepe, T., 1977, Monatsh. Vet.-Med., v. 32 (23), 889-893
Fasciola hepatica, calves, *Galba truncatula*, epizootiology (ameliorated and unameliorated pastures, population density of *G. truncatula*, soil structure, vegetation, hydrological and climatic factors); importance of melioration for complex fascioliasis control program: Potsdam, East Germany

Epidemiology, Trematoda

- James, C.; and Prah, S. K., 1978, J. Helminth., v. 52 (3), 221-226
Schistosoma mansoni, *S. haematobium*, penetration efficiency and selective capacity of miracidia based on infection rates produced in *Bulinus pfeifferi* and *B. globosus* respectively, scanning capacity also compared in increasing volumes of water, over increasing horizontal distances, and in running water of different flow rates, effect of miracidial density, epidemiological implications

Epidemiology, Trematoda

- Jordan, P.; et al., 1978, Bull. World Health Organ., v. 56 (6), 965-973
Schistosoma mansoni, humans, results of control program that provided piped water supply to households vs. use of public standpipe system, 2-year follow-up: St Lucia

Epidemiology, Trematoda

- Kloos, H.; et al., 1977, Trop. and Geogr. Med., v. 29 (4), 399-406
S[chistosoma] haematobium, parasitological and malacological survey, Afar tribe infection highest among seminomadic Afars living around swamp and lake areas, female members most affected because of water contact patterns: flood plains of Awash River, Ethiopia

Epidemiology, Trematoda

- Kloos, H.; Lemma, A.; and Desole, G., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 461-470
Schistosoma mansoni, human, prevalence, distribution, relationship to altitude: Ethiopia

Epidemiology, Trematoda

- Lancastre, F.; et al., 1978, Bull. Soc. Sc. Vet. et Med. Comp. Lyon, v. 80 (6), 285-290
Schistosoma mansoni in *Rattus rattus*, epidemiology: Guadeloupe

Epidemiology, Trematoda

- Leimbacher, F., 1978, Rev. Med. Vet., Toulouse, v. 129 (7), 1027-1046
Fasciola hepatica, sheep, assessment of earlier forecast, practical interest for large scale use as guide in establishment of control programs: Limousin

Epidemiology, Trematoda

- Lewert, R. M.; Yogore, M. G., jr.; and Blas, B. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 1010-1025
Schistosoma japonicum, human, prevalence and intensity, morbidity (hepato- and/or splenomegaly, height and weight, symptomatology), host age and sex: Barrio San Antonio, Basey, Samar, The Philippines

Epidemiology, Trematoda

- Louzada, J. L. Z., 1974, Rev. Brasil. Med., v. 31 (3), 189-190
Schistosoma mansoni, humans, epidemiologic survey in Sao Valentim, Rio Grande do Sul

Epidemiology, Trematoda

- Magalhaes, L. A.; et al., 1973, Rev. Saude Pub., S. Paulo, v. 7 (1), 21-28
S[chistosoma] mansoni, epidemiological study of area around the Americana reservoir after several autochthonous human cases of schistosomiasis were reported from this area: Sao Paulo, Brazil

Epidemiology, Trematoda

- Matovu, D. B., 1978, Trop. and Geogr. Med., v. 30 (2), 193-197
schistosomiasis, human, present and future disease situation around proposed man-made lake, vector survey, brief discussion of control measures: Mtera, Tanzania

Epidemiology, Trematoda

- Matsuda, H.; et al., 1977, Japan. J. Exper. Med., v. 47 (5), 369-375
Schistosoma japonicum, humans, diagnosis, improved procedures for circumoval precipitin test and for preparing egg antigen, comparative study on test reading techniques, highly sensitive for mass examination in endemic areas: Leyte

Epidemiology, Trematoda

- Meek, A. H.; and Morris, R. S., 1979, Austral. Vet. J., v. 55 (8), 365-369
Fasciola hepatica, sheep grazing on irrigated vs. non-irrigated pastures, temporal distribution of acquisition of infection, influence of infection on productivity, outline of suitable treatment regimen: northern Victoria

Epidemiology, Trematoda

- Mougeot, G.; et al., 1978, Ann. Parasitol., v. 53 (3), 277-283
Schistosoma mansoni in *Rattus rattus* and *R. norvegicus*, survey by immunofluorescence, variation in rate of infection and in antibody titers in 3 different biotopes, possible explanations: Guadeloupe

Epidemiology, Trematoda

- Mougeot, G.; Golvan, Y. J.; and Delattre, P., 1978, Compt. Rend. Acad. Sc., Paris, v. 286, s. D, Sc. Nat., (1), 141-143
Schistosoma mansoni, detection in rats using technique of micro-sampling of blood (after which animals can be marked and released) followed by immunofluorescence test, epidemiological usefulness: Guadeloupe

Epidemiology, Trematoda

- Naquira, C.; et al., 1972, Rev. Peruana Med. Trop., v. 1 (1), 33-37
Fasciola hepatica, epidemiologic survey for possible causes of human fascioliasis in the central highland of Peru

Epidemiology, Trematoda

- Negron-Aponte, H.; and Jobin, W. R., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 515-525
schistosomiasis, update on control program initiated in 1953 in Puerto Rico

Epidemiology, Trematoda

- Nikitina, L. P.; and Kononova, V. M., 1978, Gidrobiol. Zhurnal, v. 14 (4), 77-78
Opisthorchis felinus in cyprinid fishes and *Bithynia leachi*, potential focus for human infection: Ural river basin

Epidemiology, Trematoda

- Pamba, H. O.; and Roberts, J. M. D., 1979, East African Med. J., v. 56 (6), 255-262
S[chistosoma] mansoni, human, prevalence 1967 to 1973 by occupation and tribe, animal exposure and snail examination revealed no evidence for current transmission, possible reasons; 1 case of *S[chistosoma] haematobium* found: Lake Naivasha, Great Rift Valley, Kenya

Epidemiology, Trematoda

- Paraense, W. L.; and Correa, L. R., 1978, J. Parasitol., v. 64 (5), 822-826
Schistosoma mansoni, differential susceptibility of *Biomphalaria tenagophila* (exper.) from 20 localities to infection with single strain of schistosome, results seem to indicate that process of adaptation between *S. mansoni* and *B. tenagophila* is evolving, possible expansion of schistosomiasis to wide South American area where *B. tenagophila* occurs

Epidemiology, Trematoda

Pointier, J. P.; and Theron, A., 1979, Ann. Parasitol., v. 54 (1), 43-56

Schistosoma mansoni, distribution and population dynamics of *Biomphalaria glabrata*, prevalence of infection, rhythm of presence and density of cercariae: freshwater mangrove, Guadeloupe, French Antilles

Epidemiology, Trematoda

Polderman, A. M., 1979, Trop. and Geogr. Med., v. 31 (4), 465-475

Schistosoma mansoni, humans, transmission dynamics of endemic infection based on survey of inhabitants of small village in Ethiopia

Epidemiology, Trematoda

Pugh, R. N. H., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 189-190

Schistosoma haematobium, males aged 5-20, prime environmental contaminators responsible for more than 77% of infection transmission, need for control measures: Malumfashi area, northern Nigeria

Epidemiology, Trematoda

Pugh, R. N. H.; and Gilles, H. M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 471-482

Schistosoma haematobium, human, survey, age group and sex-specific prevalence and intensity, decline in transmission since 1971, possible impact of new dams: Malumfashi District, Kaduna State, Nigeria

Epidemiology, Trematoda

Saliternik, Z., 1979, Trop. and Geogr. Med., v. 31 (2), 175-184

Schistosoma mansoni, *S. haematobium*, human, control and eradication, historical review: Israel

Epidemiology, Trematoda

Shaka, S.; and Nansen, P., 1979, Vet. Parasitol., v. 5 (2-3), 145-154

fascioliasis, sheep, epidemiology: seasonal availability of metacercariae, parasite stages overwintering on pasture: Denmark

Epidemiology, Trematoda

Shiff, C. J.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 375-380

Schistosoma haematobium, seasonal patterns in transmission, epidemiology in school children, control by winter application of molluscicides: Rhodesia

Epidemiology, Trematoda

Smith, D. H.; Warren, K. S.; and Mahmoud, A. A. F., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 220-229

Schistosoma mansoni, human, morbidity in relation to prevalence and intensity, host age and sex, importance of environmental factors such as ecology of transmission and presence of malaria: Nduru, Kisumu, Kenya

Epidemiology, Trematoda

Sodeman, W. A., jr., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 531-538

Schistosoma mansoni, *S. haematobium*, longitudinal study of seasonal changes in vector snail populations and infections, prevalence of human infection: Bong County, Liberia

Epidemiology, Trematoda

Tager-Kagan, P., 1978, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 31 (4), 437-442

Fasciola gigantica, cattle, sheep, and goats, epidemiology, economic importance, prophylaxis: Niger

Epidemiology, Trematoda

Tayo, M. A.; and Jewsbury, J. M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 483-487

changes in snail population following construction of small dam, potential importance in transmission of *Schistosoma haematobium* and *S. mansoni*: Malumfashi Endemic Diseases Research Project, Nigeria

Epidemiology, Trematoda

Theron, A.; Pointier, J. P.; and Combes, C., 1978, Ann. Parasitol., v. 53 (2), 223-234

Schistosoma mansoni, transmission site, density of vectors (*Biomphalaria glabrata*), density of infected vectors, cercarial density, distribution of schistosomiasis in rats and humans, division of site into sectors as a function of (1) potential for transmission, (2) vector contamination, and (3) risk of contamination of final hosts, relative responsibility of man and rats in infestation of vectors: Guadeloupe

Epidemiology, Trematoda

Ueno, H., 1977, Bull. Office Internat. Epizoot., v. 87 (7-8), 693-699

Fasciola gigantica, epidemiological survey, seasonal appearance of cercariae in aquatic rice field, longevity of metacercariae on rice straw after harvesting, establishment of frequency and timing of anthelmintic application (rice straw used as roughage for stabled cattle, cattle manure used as fertilizer in rice fields): Japan

Epidemiology, Trematoda

Walker, A. R. P., 1977, South African Med. J., v. 51 (16), 541-544

schistosomiasis, children, health handicap in underprivileged peoples, comparative study of those with and without infection in both black and white races in Southern Africa

Epidemiology, Trematoda

Wenlock, R. W., 1979, J. Trop. Med. and Hyg., v. 82 (5), 90-98

malaria, hookworm, *Schistosoma haematobium*, humans in rural environment, epidemiology in relation to malnutrition and host age, importance as public health problems: Zambia

Epidemiology, Trematoda

Wilkins, H. A.; and Scott, A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 397-404

Schistosoma haematobium, children, 4-year study of egg counts, variations with age and with season, significant degree of stability of individual counts relative to those of group as whole, immunity as possible regulating factor: The Gambia

Epidemiology, Trematoda

Wilson, R. A.; and Taylor, S. L., 1978, Parasitology, v. 76 (1), 91-98

Fasciola hepatica in *Lymnaea truncatula*, curvilinear relationship between miracidial density and snail density as manifested by successful establishment of an infection in snail host, level of parasitization not related exponentially to temperature, depth of free water overlying mud surface was absolute requirement for miracidia to successfully infect snails

Epidemiology, Trematoda

World Health Organization. Scientific Working Group on Schistosomiasis, 1978, Bull. World Health Organ., v. 56 (3), 361-369

schistosomiasis, epidemiology and control, present situation and priorities for further research

Epidemiology, Trematoda

- Yogore, M. G.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 23-31
schistosomiasis japonica, human, plasma circumoval precipitin test proposed as basic diagnostic tool for epidemiologic studies: Philippines

Epilepsy

- Medrado-Faria, M. de A.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (3), 173-181
[Trypanosoma] cruzi, humans, association between epilepsy and chronic parasitic infection

Epilepsy

- Subianto, D. B.; Tumada, L. R.; and Margono, S. S., 1978, Trop. and Geogr. Med., v. 30 (3), 275-278
Taenia solium (cerebral cysticercosis), association with burns and epileptic fits in mountain people of central highlands of Irian Jaya, New Guinea, Indonesia

Epilepsy

- Tjahjadi, G.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 247-251
cerebral cysticercosis, human, as cause of epilepsy, case report: Irian Jaya, Indonesia

Epilepsy

- Wu, W. Q.; and Fritzlen, T., 1976, Surg. Neurol., v. 5 (6), 333-335
cerebral schistosomiasis mansoni, 30-year-old Saudi Arabian student, parasite-associated major epileptic seizure resulted in subluxation of cervical spine, surgical therapy: Missouri (had frequently visited Egypt)

Epizootiology. See Epidemiology.Erythrocytes. See Blood.Esophagus. [See also Digestive system]

Esophagus, Host

- Miles, M. A.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 528-532
Trypanosoma cruzi, exper. infections in rhesus monkeys, electrocardiographic and histopathologic changes

Esophagus, Host

- de Paula-Costa, M. D.; and de Rezende, J. M., 1978, AMB, Rev. Ass. Med. Brasil., v. 24 (8), 269-272
Chagas megaesophagus, humans, abnormally increased pressure of lower esophageal sphincter

Esophagus, Host

- Tafari, W. L.; and Maria, T. de A., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (5), 298-309
human Chagasic megaesophagus, role of neurosecretory vesicular component

Esophagus, Parasite

- Geraert, E., 1979, Nematologica, v. 25 (1), 1-21
free-living, plant parasitic, and animal parasitic nematodes, interdependence of body length, body width, and oesophagus length during post-embryonic growth

Esophagus, Parasite

- Ohmori, Y.; Yoshimura, H.; and Ishigooka, S., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (1), 24-35
Strongyloidea, 29 species, comparative study of 5 types of esophageal cuticular lining

Esophagus, Parasite

- Saunders, J. R.; and Burr, A. H., 1978, Bio-phys. J., v. 22 (3), 349-372
Ascaris lumbricoides, pumping mechanism of esophagus

Esophagus, Parasite

- Saxena, A., [1979], J. Animal Morph. and Physiol., v. 25 (1-2), 1978, 16-21
Aspiculuris pakistanica from Rattus rattus, description of cephalic region, buccal capsule, and oesophagus, distribution of nuclei in oesophagus

Esophagus, Parasite

- Vincent, A. L.; et al., 1978, J. Parasitol., v. 64 (5), 775-785
Wuchereria bancrofti, infective stage, ultrastructure of anterior alimentary tract, functional implications

Estrus. See Hormones; Reproduction.

Ethiopia

- Fuller, G. K.; Lemma, A.; and Haile, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 526-530
intestinal parasites, population survey, inhabitants of Omo National Park, Ethiopia (Schistosoma mansoni; Fasciola gigantica; Taenia spp.; Ascaris lumbricoides; Trichuris trichiura; Ancylostoma duodenale; Entamoeba histolytica; Giardia lamblia)

Ethiopia

- Graber, M., 1975, Bull. Animal Health and Prod. Africa, v. 23 (1), 57-85
helminths, domestic and wild animals, host-parasite list: Ethiopia

Ethiopia

- Graber, M.; Delavenay, R. P.; and Tesfamariam, G., 1978, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 31 (3), 341-352
survey of intestinal helminths in zebu cattle: Kofele (South of Arussi, Ethiopia) (Gongylonema pulchrum; Cotylophoron cotylophorum; Paramphistomum daubneyi; Haemonchus contortus; Moniezia expansa; Bunostomum phlebotomum; Cooperia punctata; C. pectinata; Trichostrongylus sp.; Nematodirus sp.; Oesophagostomum (Bosicola) radiatum; Fasciola hepatica; F. gigantica; Echinococcus polymorphus; Taenia; Echinococcus granulosus; Taenia saginata (Cysticercus bovis); Taenia hydatigena (Cysticercus tenuicollis); Thelazia rhodesii)

Ethnic groups and racial stocks

- Alexander, A. M., 1978, Arch. Dermat., Chicago, v. 114 (4), 627 [Letter]
scabies, dermatology records support observation that, under similar environmental circumstances, whites appear to be more susceptible to infestation than blacks

Ethnic groups and racial stocks

- Armstrong, J. C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 342-344
Plasmodium vivax/ovale, prevalence rates for Nilotic and Hamitic-Semitic populations residing together in small town show that the two ethnic groups are innately different in susceptibility to patent infection with vivax malaria: Ethiopia

Ethnic groups and racial stocks

Baruzzi, R. G., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 93-104

Toxoplasma gondii, epidemiologic survey of indians of the Upper Xingu River (indirect immunofluorescence), comparison with 2 other surveys made in different geographic areas and in populations of more advanced areas of civilization (Sabin-Feldman dye test), little significant differences: Brazil

Ethnic groups and racial stocks

Brink, J. D.; de Wet, J. S.; and van Rensburg, A. J., 1975, South African Med. J., v. 49 (35), 1441-1443

Toxoplasma gondii, serological survey of pregnant women by racial and age groups; results in relation to epidemiology, complications, diagnosis and treatment: Bloemfontein area

Ethnic groups and racial stocks

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1978, Tropenmed. u. Parasitol., v. 29 (3), 253-268

polyparasitism, humans, epidemiology, assessment of combined effects of multiple infections on an individual's state of health, comparative analysis of field data obtained from several tropical villages

Ethnic groups and racial stocks

Francis, R. C., 1975, Singapore Med. J., v. 16 (4), 290-296

toxoplasmosis, Asian women especially Malays, high infection rate, high rates of abortion, congenital anomalies, and low birth-weight infants, possible relationships: Singapore

Ethnic groups and racial stocks

Gandahasada, S., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 308-311

Toxoplasma gondii, human, hemagglutination test, seropositivity rates significantly different in Indonesians vs. Chinese but not between sexes: Jakarta, Indonesia

Ethnic groups and racial stocks

Jacobs, M. R.; and Mason, P. R., 1978, South African Med. J., v. 53 (16), 619-621

Toxoplasma gondii antibodies, human, prevalence survey by areas and ethnic groups: Natal, Eastern Cape, Western Cape, South West Africa, and Botswana regions of Southern Africa

Ethnic groups and racial stocks

Kammerer, W. S.; et al., 1977, Trop. Doctor, v. 7 (3), 105-106

Clonorchis sinensis, incidence survey in Chinese immigrants living in New York City

Ethnic groups and racial stocks

Kan, S. P.; and Cheah, J. S., 1970, Singapore Med. J., v. 11 (4), 283-286

helminthic infections, intestinal protozoa, prevalence and intensity among ethnic groups: Singapore

Ethnic groups and racial stocks

Keystone, J. S.; Krajden, S.; and Warren, M. R., 1978, Canad. Med. Ass. J., v. 119 (3), 241-248

Giardia lamblia, epidemiology of outbreak in day-care nurseries, transmission apparently person-to-person, more Canadian children were symptomatic and infected than were immigrant children attending the nurseries, infections cleared with metronidazole or atabrine, control measures suggested including treatment of all infected children regardless of whether they were symptomatic: Toronto, Canada

Ethnic groups and racial stocks

van der Kuyp, E., 1978, Surinaams Med. Bull., v. 2 (1), 16-39

human hookworm, extensive epidemiologic survey and control campaign conducted 1956-1972: rural Surinam

Ethnic groups and racial stocks

Leser, P. G.; Camargo, M. E.; and Baruzzi, R., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 232-236

toxoplasmosis, Brazilian Indians (Kren-Akore) who have had only recent contact with civilized man, serological survey using immunofluorescence and hemagglutination, high degree of positive tests: Xingu National Park

Ethnic groups and racial stocks

Lynch, M. W.; and Harmon, W. M., 1979, West. J. Med., San Francisco, v. 131 (4), 336-338

[Letter]
intestinal parasites, humans, prevalence in 3 ethnic groups (Mexican-American, Punjabi, Caucasian): Cantua Creek, California

Ethnic groups and racial stocks

Martin, S. K.; et al., 1978, Lancet, London (8062), v. 1, 466-468

Plasmodium falciparum, low erythrocyte pyridoxal-kinase activity in serum of non-infected Black and White races in comparison to that of infected Black persons; possible relation to malarial infection, possibly requirement of parasite

Ethnic groups and racial stocks

Mason, P. R.; Jacobs, M. R.; and Fripp, P. J., 1974, South African Med. J., v. 48 (39), 1707-1709

toxoplasmosis, human serological survey of 4 ethnic groups: Transvaal, South Africa

Ethnic groups and racial stocks

Miller, L. H.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1069-1072

Plasmodium vivax, 13 American blacks infected while in Vietnam were all Duffy blood group positive, lends support to hypothesis that Duffy negative genotype is basis for resistance of blacks to vivax malaria

Ethnic groups and racial stocks

Nawalinski, T.; Schad, G. A.; and Chowdhury, A. B., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1152-1161

hookworms and other intestinal helminths, children, prevalence and intensity over 22-month period, host age, sex, and religion, seasonal distribution: rural West Bengal

Ethnic groups and racial stocks

Nawalinski, T.; Schad, G. A.; and Chowdhury, A. B., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1162-1173

hookworms, acquisition and loss by children over 22-month study period, host age, sex, and religion, seasonal patterns, extrapolation of estimates for larval efficiency and adult life spans: rural West Bengal

Ethnic groups and racial stocks

Nunesmaia, H. G.; et al., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (3), 160-163

Schistosoma mansoni, hepatic form, survey of racial admixture and ahaptoglobinemia, Negroes have higher resistance to development of severe infection than do other racial groups: Brazil

Ethnic groups and racial stocks

Nunesmaia, H. G.; and Azevedo, E. S., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (1), 10-13

Chagas disease, autopsy survey of cardiac associated infections, possible association between Chagas infection and the Negro race: Bahia, Brasil

Ethnic groups and racial stocks

Oomen, J. M. V., 1979, *Trop. and Geog. Med.*, v. 31 (3), 395-403

body build and nutritional status of three ethnic groups inhabiting same locality, effects of infections including malaria, Schistosoma haematobium and hookworm: Northern Nigeria

Ethnic groups and racial stocks

Oomen, J. M. V.; Meuwissen, J. H. E. T.; and Gemert, W., 1979, *Trop. and Geogr. Med.*, v. 31 (4), 587-606

males of 3 ethnic groups and 3 age groups inhabiting same locality, haematological status (including anemia), spleen and liver enlargement, immunoglobulin status, malaria parasite rates, other parasite infections, possible associations between these and other factors (including nutrition, sickle cell trait, altered immune response to malaria): Northern Nigeria

Ethnic groups and racial stocks

Price Evans, D. A.; Fletcher, K. A.; and Baty, J. D., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (1), 11-17

urinary excretion of chloroquine in different ethnic groups, study of healthy volunteers

Ethnic groups and racial stocks

Ricciardi, I. D.; et al., 1978, *Rev. Microbiol.*, Sao Paulo, v. 9 (4), 181-187

Toxoplasma gondii, human, seroepidemiological survey, prevalence in relation to geographic region, age, sex, rural vs. urban residence, skin color, blood group, occupation, contact with animals: Brazil

Ethnic groups and racial stocks

Scaglia, M.; et al., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (4), 465-468

intestinal parasite load in relation to serum IgE levels in individuals from 2 ethnic groups from North and South Rwanda

Ethnic groups and racial stocks

Spencer, H. C.; et al., 1978, *Am. J. Trop.*

Med. and Hyg., v. 27 (4), 664-670

Plasmodium falciparum, P. vivax, human (Duffy blood group positive and negative, black and white), indirect fluorescent antibody titers, slide-demonstrated infection rates, Duffy negative genotype appears to be factor in resistance to P. vivax: Honduras

Ethnic groups and racial stocks

Thomas, V.; and Dissanaik, A. S., 1978, *Tr.*

Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 303-306

Sarcocystis, human, indirect fluorescent antibody test using Sarcocystis fusiformis as antigen, antibody prevalence varies among 4 ethnic groups (Orang Asli, Malays, Indians, Chinese), some sera also reacted positively to Toxoplasma: West Malaysia

Ethnic groups and racial stocks

Walker, A. R. P., 1977, *South African Med. J.*, v. 51 (16), 541-544

schistosomiasis, children, health handicap in underprivileged peoples, comparative study of those with and without infection in both black and white races in Southern Africa

Ethnic groups and racial stocks

Walton, B. C.; and Valverde, L., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (1), 23-29

Leishmania braziliensis, human, rapidity of evolution and end consequences of espundia, differences between indigenous Amerinds and persons of African ancestry: Yungas district, Bolivia

Ethnic groups and racial stocks

Ward, W. B.; et al., 1979, *Trop. and Geog. Med.*, v. 31 (1), 155-164

guinea worm, survey of villagers from 5 communities during epidemics to determine disease-associated attitudes, beliefs, and practices, differences between 2 ethnic groups, implications for health education: Southern Ghana

Ethnic groups and racial stocks

Zigas, V., 1977, *Sex. Transm. Dis.*, v. 4 (2), 63-65

Trichomonas vaginalis, comparative evaluation of infection prevalence in Melanesian vs. Caucasian ethnic groups, correlations by age, sex, parity, and place of residence: New Britain Island, Papua New Guinea

Europe

Coring, J., 1977, *Tierarztl. Umschau*, v. 32 (8), 407-408, 410

governmental parasite control and prophylaxis measures within the European countries, survey

Evolution. [See also Adaptation; Genetics]

Evolution

Barrera, A., [1967], *Rev. Soc. Mexicana Hist. Nat.*, v. 27, 1966, 67-88

Hoplopsyllus pectinatus sp. nov., Cediopsylla tepolita sp. nov., adaptation to host (a Paleolaginae rabbit), striking examples of slow evolution of parasites of "living fossil"; similarity with Nesolagobius callosus, a species of flea parasitic on Nesolagus (an Old World Paleolaginae rabbit) belonging to the Archaeopsyllinae rather than the Spilopsyllinae

Evolution

- Bazitov, A. A., 1976, Zool. Zhurnal, v. 55 (12), 1779-1787
 Carophyllidea, status in system of flatworms, embryogenesis and adult tissue organization compared with other cestodes; Caryophyllidea considered more primitive than other cestodes; taxonomic status of cestodes unsolved

Evolution

- Bona, F. V., 1978, Ann. Parasitol., v. 53 (2), 163-180
 Clelandia, remarks on diagnosis and validity, comparisons and affinities with Parvitaenia and Neogryporhynchus, phylogenetic links of Parvitaenia with other genera infesting Ciconiiformes

Evolution

- Brooks, D. R., 1978, System. Zool., v. 27 (3), 312-323
 Proteocephalidea, evolutionary history, morphological, zoogeographical, and host relationships, proposed classification

Evolution

- Brooks, D. R., 1979, System. Zool., v. 28 (3), 299-307
 host-parasite coevolution, context and extent, phenomena of co-accommodation and co-speciation

Evolution

- Chabaud, A. G.; et al., 1978, Malayan Nature J., v. 31 (3), 189-195
 Nematoda of Tragulidae, evolutionary origins and adaptations to hosts in relation to host evolution

Evolution

- Chabaud, A. G.; and Durette-Desset, M. C., 1978, Bull. Soc. Zool. France, v. 103 (4), 459-464
 congeneric parasite species coexisting in same host species, evolutionary and ecological considerations

Evolution

- Chesnova, L. V., 1978, [Concepts of evolution in parasitology. (Historical essay)], 162 pp.
 evolution of parasitism, concepts, historical review

Evolution

- Durette-Desset, M. C., 1970, Bull. Mus. National Hist. Nat., Paris, 2. s., v. 41 (4), 1969, 940-945
 Citellinema, study of cuticular ridges confirms that the genus gave rise to the large phylum Heligmosomoides-Heligmosomum strictly associated with holarctic Microtidae

Evolution

- Earl, P. R., 1979, Tr. Am. Micr. Soc., v. 98 (4), 549-557
 opalinids, taxonomy and problems of identification, factors of zoogeographical distribution (Metcalf's land bridges, continental drift and anuran dispersal)

Evolution

- Friedman, M. J.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 777-780
 Plasmodium falciparum, in vitro cultures, host cell competence of abnormal hemoglobin-containing erythrocytes, evolutionary significance of results

Evolution

- Gagarin, V. G., 1979, Ekologiya, Sverdlovsk (1), 69-75
 nematodes, 4 ecological groups (hydrobiont, saprobiont, phytohelminth, zoohelminth), typical morphophysiological traits

Evolution

- Grabda-Kazubska, B., 1976, Acta Parasitol. Polon., v. 24 (11-19), 125-141
 plagiorchid trematodes, life cycles, modifications of normal 3-host life cycle (progenesis and elimination of metacercariae), evolutionary significance of these tendencies, possible origin of certain amphibian parasites

Evolution

- Guttekova, A.; and Zmoray, I., 1979, Biologia, Bratislava, s. B, Zool. (1), v. 34 (2), 97-105
 Nematodirus filicollis, ultrastructure of body wall and intestine, influence of ecological factors on morphogenesis, phylogenetic aspects

Evolution

- von Haffner, K., 1977, Zool. Anz., Jena, v. 199 (5-6), 353-370
 Pentastomida, systematic position evaluated, evolution discussed
 "Within the phylogenetic system the Pentastomida are to be placed as a special class of the Articulata between the Tardigrada and the Myriapoda progneata, but they seem to be more closely related to the latter."

Evolution

- Healy, J. A., 1979, Genetica, v. 50 (1), 19-30
 Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Evolution

- Healy, J. A., 1979, Parasitology, v. 78 (1), 7-17
 Ixodes ricinus, samples from several Irish localities and from spring and autumn ticks collected in one area, detection by electrophoresis of very high allelic variation at locus coding for phosphoglucumutase, allele frequency patterns, both spatial and temporal genetic differentiation exist, possible use of this polymorphism in population and taxonomic studies, possible adaptive significance of polymorphism in autecology of parasite

Evolution

- Ivashkin, V. M.; and Blinova, S. L., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 16-26
 evolution of nematode parasitism by adaptation to host organism, review

Evolution

- Jarecka, L., 1975, Acta Parasitol. Polon., v. 23 (1-11), 93-114
 ontogeny and evolution of cestodes

Evolution

- Jennings, J. B., 1977, Acta Zool. Fennica (154), 63-79
free-living and symbiotic Turbellaria, patterns of nutritional physiology, their implications for evolution of entoparasitism

Evolution

- Kakuliia, G. A., 1978, Soobshch. Akad. Nauk Gruzinsk. SSR, v. 92 (3), 733-735
Nematoda fauna of beetles (Cerambycidae and Irididae) changed as hosts evolved from soil to tree environment with change of feeding type; concept of "helminth substituted animals", review

Evolution

- Kay, A. B., 1979, J. Allergy and Clin. Immunol., v. 64 (2), 90-104
Schistosoma mansoni, relationship among mast cell mediators, complement, and preferential killing of schistosomula by the human eosinophil, review; speculations as to why, in phylogeny, humans might have developed and retained acute allergic response

Evolution

- Khotenovskii, I. A., 1972, Parazitologiya, Leningrad, v. 6 (1), 79-82
Pleurogenidae, Lecithodendriidae, Plagiostomidae, parasites of bats, morphology, localization in host intestine, and mode of feeding briefly discussed as examples of adaptive evolution of the parasites

Evolution

- Kim, K. C.; and Emerson, K. C., 1974, J. Med. Entom., v. 11 (4), 442-446
Echinophthiriidae

Evolution

- Kim, K. C.; and Ludwig, H. W., 1978, Ann. Entom. Soc. Am., v. 71 (6), 910-922
Psocodea, phylogenetic relationships of five taxa analyzed cladistically, evaluation of character complexes, theoretical aspects of phylogenetic inferences on origin of higher taxa

Evolution

- Krylov, M. V., 1971, Parazitologiya, Leningrad, v. 5 (3), 201-208
Piroplasmida, distribution in different host groups and zoogeographic regions, speculations on phylogeny

Evolution

- Kuperman, B. I., 1973, Lentochoyne chervi roda Triaenophorus--parazity ryb. Eksperimental'naya sistematika, ekologiya [Tapeworms of the genus Triaenophorus--parasites of fish. Experimental systematics, ecology] 207 pp.
Triaenophorus, monographic review of morphology, life cycle, development, geographic distribution, interrelation with host and pathogenic role, host specificity, evolution, species formation; key to species, host list, synonymy, includes: T. nodulosus (Pallas, 1781); T. amurensis Kuperman, 1968; T. stizostedionis Miller, 1945; T. crassus Forel, 1868; T. meridionalis Kuperman, 1968; T. orientalis Kuperman, 1968

Evolution

- Kuperman, B. I., 1978, Dokl. Akad. Nauk SSSR, v. 242 (1), 245-248
Eubothrium rugosum, Bothriocephalus gowkongensis, oncosphere, proceroid, plerocercoid, tegument ultrastructure; evolution of cestode tegument briefly discussed

Evolution

- Lambert, A., 1979, Compt. Rend. Acad. Sc., Paris, v. 288, s. D, Sc. Nat. (2), 231-233
Gyrodactylus sp. from Carassius auratus, chetotaxy, hypothesis on neotenic origin of Gyrodactylidae from same ancestral stock as Polyopisthocotylea

Evolution

- Lebedev, B. I., 1979, Zhurnal Obshch. Biol., v. 40 (2), 271-281
Monogenea, congeneric concurrent parasitism of fish gills, spatial distribution related to coevolution of competitive species, simultaneous hermaphroditism aids reproduction in restricted environment, review

Evolution

- Llewellyn, J.; and Tully, C. M., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 1063-1074
Diclidophorinae, 12 spp., morphological variations, comparison of possible evolutionary paths in parasites and in their fish hosts, key to species

Evolution

- Mattingly, P. F., 1976, Parassitologia, v. 18 (1-3), 1-8
malaria parasites, evolution

Evolution

- Michajlow, W. K., 1972, Parazitologiya, Leningrad, v. 6 (1), 3-7
Euglenoidina of Copepoda, stages of adaptation to parasitism

Evolution

- Michajlow, W., 1977, Zhurnal Obsh. Biol., v. 38 (5), 657-675
Euglenoidina of Copepoda, examples of evolution of parasitism and species formation; localization, life cycles

Evolution

- Morales, N. M.; and Roberts, J. F., 1978, Comp. Biochem. and Physiol., v. 59B (1), 1-4
Crithidia fasciculata, Leishmania tropica, Trypanosoma brucei, comparison of ribosomal RNAs, possible evolutionary significance

Evolution

- Moulder, J. W., 1979, Host-Parasite Interfaces, 127-138
evolutionary origin of intracellular parasitism; speculative review

Evolution

- Panin, V. Ia., 1974, Parazitologiya, Leningrad, v. 8 (2), 93-97
Dicrocoeliidae, cenogenetic adaptations and their role in evolution

Evolution

- Peus, F., 1979, Bonn. Zool. Beitrage, v. 29 (4), 1978, 449-467
Ctenophthalmus agyrtes subspp., identification and geographical distribution, evolution: Deutschland

Evolution

- Randolph, S. E., 1979, Parasitology, v. 79 (1), 141-156
Ixodes trianguliceps, manifestations of acquired resistance in successive infestations of unnatural host (laboratory mice) but not of natural host (Apodemus sylvaticus), relevance to concept of host-parasite co-evolution and to tick population regulation

Evolution

Riley, J.; Banaja, A. A.; and James, J. L., 1978, *Internat. J. Parasitol.*, v. 8 (4), 245-254

Pentastomida, assessment of recent evidence regarding phylogenetic affinities, concluded that pentastomids should properly be regarded as a sub-class of Crustacea, closely related to the sub-class Branchiura

Evolution

Rohde, K., 1978, *Biol. Zentralbl.*, v. 97 (4), 405-418

gill parasites of marine fish, species numbers and microhabitat utilization at different latitudes, assumption of greater evolutionary speed in tropics as probable explanation of latitudinal gradients in species diversity (more species in tropical than in cold water fishes)

Evolution

Sey, O., 1977, *Acta Zool. Acad. Scient. Hungar.*, v. 23 (3-4), 387-394

Microscaphidiidae, phylogenetic relationships discussed
"it is best to treat microscaphids as distinct from amphistomes, as a separate group until information on their life-history patterns is available."

Evolution

Sinden, R. E.; et al., 1978, *Proc. Roy. Soc. London, S. B.*, *Biol. Sc.* (1145), v. 201, 375-399

Plasmodium falciparum, gametocyte and gamete development, ultrastructure of gametocytes from blood of naturally infected Gambians compared with immature forms from blood of chloroquine treated patient, functional morphology, cytogenetics, phylogeny

Evolution

Sogandares-Bernal, F.; Hietala, H. J.; and Gunst, R. F., 1979, *J. Parasitol.*, v. 65 (4), 616-623

Ornithodiplostomum ptychocheilus infection not found to affect stamina of *Richardsonius balteatus*, evolutionary implications; multivariate contingency table analysis of data

Evolution

Southgate, V. R., 1978, *Ztschr. Parasitenk.*, v. 56 (2), 183-193

Schistosoma intercalatum, morphology of cercarial glands; aggregates of cercariae formed by adhesive post-acetabular gland secretions, physical factors triggering aggregation behavior and impairing invasion of final host; hybridization with *S. haematobium* and fate of hybrids among natural populations; hypotheses on cercarial aggregation behavior and natural hybridization as factors limiting distribution of *S. intercalatum*

Evolution

Sudarikov, V. E., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 22, 182-188

helminth life cycles, role of amphixeny (host having double function in life cycle) in their evolution, theoretical review

Evolution

Telford, S. R., jr., 1979, *Parasitology*, v. 79 (3), 317-324

Leishmania spp. amastigotes in blood cells (primarily thrombocytes) of *Teratoscincus scincus* and *Agama agilis*, evolutionary implications: Pakistan

Evolution

Tenora, F., 1977, *Acta Univ. Agric., Fac. Agronom., Brno*, v. 25 (2), 163-170
Catenotaenia, systematic reorganization, diagnosis, hypothetical evolution

Evolution

Traub, R., 1977, *J. Med. Entom.*, v. 13 (6), 658-685

Tiflovia n. gen., taxonomy, convergent evolution, zoogeography and ecology

Evolution

Wang, C. C., 1978, *Comp. Biochem. and Physiol.*, v. 61B (4), 571-579

Eimeria tenella, ribosomes, purification from oocysts, characterization, biochemical activity, pharmacological properties, all evidence demonstrates prokaryotic characteristics of these ribosomes and suggests that the parasite may be one of the most primitive eukaryotes

Evolution

Whitaker, J. O., jr., 1979, *Am. Midland Naturalist*, v. 101 (1), 49-60

ectoparasites of *Zapus* spp., evolutionary and zoogeographical relationships: western North America

Evolution

Wita, I., 1974, *Acta Parasitol. Polon.*, v. 22 (35-44), 365-391

Paradistigma n. spp., life cycles, flagellate locomotion, attraction to specific copepod host, speculation on evolution to parasitism: Mazurian Lakes, Poland

Evolution

Yutuc, L. M., 1978, *Philippine J. Vet. Med.*, v. 17 (1-2), 70-84

Trypanosoma evansi, morphology, size variation in relation to host species, geographic location, infection density, and host resistance; phylogenetic origin

Evolution

Zhuchkova, N. I.; and Shishov, B. A., 1979, *Zhurnal Obshch. Biol.*, v. 40 (2), 259-270

nematodes, catecholaminergic neurones, histochemical localization, stability in number and position suggests conservatism of morphological and chemical structure of nervous system

Excretory system, Parasite

Bayssade-Dufour, C.; et al., 1978, *Ann. Parasitol.*, v. 53 (6), 595-605

Diplo-discus subclavatus, *D. fischthalicus*, cercariae, comparison of excretory system and chetotaxy

Excretory system, Parasite

Jain, G. P.; and Yadav, D. C., 1967, *Rev. Biol. Trop.*, v. 15 (1), 185-193

division of echinostome cercariae into 3 main groups (*Echinostolenata*; *Echinobisolenta*; *Echinopolysolenata*) based on their excretory system

Excretory system, Parasite

Parshad, V. R.; and Guraya, S. S., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 81-89

Ascaridia galli, *Cotylophoron cotylophorum*, *Raillietina cesticillus*, histochemistry of excretory systems, localization of lipids, carbohydrates, and hydrolytic enzymes; substance transportation and ionic regulation discussed

Excretory system, Parasite

- Powell, E. C., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 136-141
Ochetosoma aniarum, metacercariae, early ultrastructural development of excretory bladder

Excretory system, Parasite

- Singh, A. P.; Noda, K.; and Lim, D., 1977, J. Arizona Acad. Sc., v. 12 (1), 23-28
Stellantchasmus falcatus, cercariae, fine structure of secretory vesicle

Excretory system, Parasite

- Yamane, Y.; et al., 1978, Shimane J. Med. Sc., v. 2 (1), 1-14
Spirometra erinacei, plerocercoid and adult worms, transmission and scanning electron microscopic study of excretory canal, functional morphology

Excystation. See Cysts.

Exotic diseases. See Disease transmission, Imported and exported hosts; Disease transmission, Travel and migration.

Exsheathment. See Ecdysis.

Eye

- de Almeida, A. A.; and de Oliveira, J. E. B., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (1), 1-8
 human ocular cysticercosis, pathology, possible complications, currently used surgical procedures and new technique described: Brazil

Eye

- Ashton, N., 1979, Am. J. Ophth., Chicago, s. 3, v. 88 (3, pt. 1), 322-332
Toxoplasma cyst in *Macropus rufogriseus* (retina, brain), ocular pathology, case report: Whipsnade Park, London Zoo

Eye

- Ashton, N.; and Cook, C., 1979, Ophthalmology, v. 86 (1), 8-42
 allergic granulomatous nodules of the eyelid and conjunctiva, humans, several cases caused by unidentified nematodes, clinical, histological and pathological features

Eye

- Beaver, P. C.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1133-1136
Entamoeba histolytica, 4-month-old girl, infection of skin of eyelid with extension into orbit, case report: Colombia

Eye

- Belfort, R., jr.; and Moraes, M. A. P., 1979, AMB, Rev. Ass. Med. Brasil., v. 25 (4), 123-127
Onchocerca volvulus, survey of residents and visitors in 2 Indian villages, high incidence of ocular abnormalities, mainly corneal: Territory of Roraima, Brazil

Eye

- Biglan, A. W.; Glickman, L. T.; and Lobes, L. A., jr., 1979, Am. J. Ophth., Chicago, s. 3, v. 88 (5), 898-901
Toxocara canis, humans, endophthalmitis, enzyme-linked immunosorbent assay revealed *Toxocara*-specific antibody in serum and vitreous humor

Eye

- de Carvalho, F. M., 1975, Rev. Brasil. Oftal., v. 34 (2), 319-332
 human ophthalmohelminthiasis, general review

Eye

- Cho, B. C., 1977, Taehan Ankwa Hakhoe Chapchi (J. Korean Ophth. Soc.), v. 18 (1), 9-12
Toxoplasma gondii-infected mice, pathological changes in brains and orbits

Eye

- Gass, J. D. M.; and Lewis, R. A., 1976, Tr. Am. Acad. Ophth. and Otolaryngol., v. 81 (3, pt. 1), 483-490
 ophthalmomyiasis, humans, migration of maggot through subretinal space producing widespread ophthalmoscopic and fluorescein angiographic changes, case reports

Eye

- Glickman, L.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 29-35
Toxocara canis, 2-year-old boy with concurrent ocular and visceral toxocariasis, case report, parasite-specific antibodies in serum and aqueous humor, response to treatment with prednisone and thiabendazole

Eye

- Hamerski, W.; Sikorski, R.; and Kawa, E., 1978, Terap. i Lek., v. 6, v. 28 (10), 342-343
Toxoplasma gondii, ophthalmic changes in children born of mothers who had been treated for chronic infection

Eye

- Hart, J. C. D.; and Raistrick, E. R., 1977, Tr. Ophth. Soc. United Kingdom, v. 97 (1), 164-167
Toxocara species, humans in 20- to 50-year age group, unioocular retinal lesions, pathology, epidemiology

Eye

- Jones, B. R.; McGill, J. I.; and Steele, A. D. M., 1975, Tr. Ophth. Soc. United Kingdom, v. 95 (2), 210-213
Acanthamoeba castellanii, farmer, recurrent suppurative kerato-uveitis with loss of eye, infection possibly result of handling barley from which *Acanthamoeba* was isolated: England

Eye

- Jones, D. B.; Visvesvara, G. S.; and Robinson, N. M., 1975, Tr. Ophth. Soc. United Kingdom, v. 95 (2), 221-232
Acanthamoeba polyphaga keratitis and *Acanthamoeba* uveitis associated with fatal meningoencephalitis, 3 case reports, extensive clinical presentation, strain characteristics, pathology, diagnostic problems and possibly useful therapeutic agents: Texas

Eye

- Kabata, Z., 1969, J. Fish. Research Bd. Canada v. 26 (4), 921-934
Phrixocephalus cincinnatus in *Atheresthes stomias*, morphology, metamorphosis, effect on eye of parasite's presence and activity: Barkley Sound, west coast of Vancouver Island; sea area adjacent to west coast of Vancouver Island

Eye

- Koo, K. I.; Shin, H.; and Shin, N. Y., 1976, Taehan Ankwa Hakhoe Chapchi (J. Korean Ophth. Soc.), v. 17 (1), 111-114
Cysticercus cellulosae, human eye, pathology, clinical aspects, case reports

- Eye
Lou, P.; Kazdan, J.; and Basu, P. K., 1978, Arch. Ophth., Chicago, v. 96 (4), 613-614
toxoplasmosis, retinochoroiditis in 3 consecutive siblings, family history reviewed, etiology unknown; immunologic studies of entire family
- Eye
Masur, H.; et al., 1978, Am. J. Med., v. 64 (3), 396-402
Toxoplasma gondii, outbreak of toxoplasmosis in 6 of 7 members of one household with index case manifesting retinochoroiditis, undercooked lamb implicated as probable source of infections, case reports with clinical features, diagnostic serology: New York City
- Eye
Michelson, J. B.; et al., 1978, Am. J. Ophth., Chicago, v. 86 (4), 548-552
Toxoplasma gondii, woman, case report, acquired systemic infection presenting as infectious mononucleosis syndrome, diagnosed as toxoplasmosis after patient developed retinitis, material from lymph node biopsy injected into mice from which the parasite was subsequently isolated
- Eye
Nagington, J., 1975, Tr. Ophth. Soc. United Kingdom, v. 95 (2), 207-209
Acanthamoeba spp. isolated from human eye infections, clinical report, in vitro trials of compounds for possible amoebicidal and cysticidal activity
- Eye
Nutting, W. B.; Beekman, E. E.; and Snyder, D. P., 1978, J. Med. Entom., v. 14 (6), 646-648
Demodex gapperi in Clethrionomys gapperi (Meibomian ducts), gross signs, development of eyelid closures, histopathology: born in captivity to female captured in Peru, Vermont, U.S.A.; wild-caught in Belchertown, Massachusetts, U.S.A.
- Eye
Owens, P. L.; Goldberg, M. F.; and Busse, B. J., 1979, Am. J. Ophth., Chicago, s. 3, v. 88 (3, pt. 1), 402-405
recurrent ocular toxoplasmosis, 19-year-old man, prospective observation of vascular anastomoses between retina and choroid, case report: University of Illinois
- Eye
Perry, H. D.; and Font, R. L., 1978, Arch. Ophth., Chicago, v. 96 (7), 1255-1257
Cysticercus cellulosae, solitary cyst in eyelid of young girl who several years previously had lived for 2 years in Vietnam and Laos, clinical case report, histologic diagnosis
- Eye
Pollard, Z. F., 1979, Arch. Ophth., Chicago, v. 97 (12), 2319-2320
Toxocara canis in 2 siblings of 2 separate families, decreased vision, diagnosis, enzyme-linked immunosorbent assay
- Eye
Rocha, H., 1977, Rev. Brasil. Oftal., v. 36 (2), 285-297
human ocular toxoplasmosis, clinical, diagnostic and therapeutic review
- Eye
Roizenblatt, J., 1979, Am. J. Ophth., Chicago, v. 87 (2), 175-179
American (mucocutaneous) leishmaniasis, human (eye), interstitial keratitis, case report, differential diagnosis, amphotericin B: Brazil
- Eye
Rolland, A.; Thylefors, B.; and Pairault, C., 1978, Bull. World Health Organ., v. 56 (5), 805-810
onchocerciasis, 80 inhabitants of a village, results of two ocular examinations with a nine-year interval: Upper Volta, West Africa
- Eye
Rustamova, E. I.; and Mekhtizade, N. S., 1979, Azerbaidzhan. Med. Zhurnal (9), 14-17
toxoplasmosis, cause of blindness in children
- Eye
Sanchez Beaujon, R. A.; and Penalver, L. M., 1975, Semana Med. (4907), an. 82, v. 147 (2), 36-45
onchocerciasis, human ocular infection, survey of types of lesions encountered in 80,000 persons, histopathology, therapy: Venezuela
- Eye
Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 24-28
ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics
- Eye
Soares, E. F.; and Goes-Monteiro, R., 1972, Rev. Brasil. Oftal., v. 31 (3), 361-366
cysticercosis, infestation of anterior chamber of human eye by living cysticercus, resulting uveitis, successful surgical removal of parasite by cryo-probe
- Eye
Stern, G. A.; and Romano, P. E., 1978, Arch. Ophth., Chicago, v. 96 (4), 615-617
toxoplasmic retinochoroiditis of probable congenital origin reported in 2 siblings, clinical aspects
- Eye
Tacorian, D.; et al., 1978, Rev. Chir. (Oftalmologia), Bucuresti, v. 22 (1), 73-76
human retinal periphlebitis and uveitis, possible allergic reaction to triple infection of Ancylostoma duodenale, Trichuris trichiura, Ascaris lumbricoides, clinical case report
- Eye
Trojan, H. J., 1977, Rev. Internat. Trachome et Path. Ocul. Trop. et Subtrop., v. 54 (3-4), 111-117
Onchocerca volvulus, human eye, atrophy of disc of optic nerve, discussion of possible etiology, possibly an antigen-antibody reaction
- Eye
Watson, P. G., 1975, Tr. Ophth. Soc. United Kingdom, v. 95 (2), 204-206
Hartmannella infection of eye, woman, pathology, case history

Eye

- Wery, M.; et al., 1976, Ann. Soc. Belge Med. Trop., v. 56 (2), 95-124
Onchocerca volvulus, humans, epidemiologic survey, parasitological, ophthalmological and immunological aspects: Lusambo, Kasai Oriental, Zaire

Eye

- Woo, P. T. K., 1979, Exper. Parasitol., v. 47 (1), 36-48
Trypanoplasma salmositica, successful in vitro culture and subpassage, course of infection in Salmo gairdneri (exper.), clinical signs (anemia, exophthalmia, abdominal distension with ascites, splenomegaly), diagnosis by wet mount examination more sensitive than hematocrit centrifuge technique, evidence of possible antigenic variation

Fats. See Lipids.

Fatty acids. See Lipids.

Fecal examination. See Technique, Fecal examination.

Federation of Malaysia. See Malaysia.

Feeding. [See also Phagocytosis; Pinocytosis]

Feeding

- Alekseev, A. N., 1971, *Parazitologiya*, Leningrad, v. 5 (5), 392-400
Ixodes persulcatus, technique for artificial feeding of ticks with suspension containing virus of tick-borne encephalitis, applications

Feeding

- Amirkhanov, F. M., 1975, *Parazitologiya*, Leningrad, v. 9 (1), 64-67
Syringophilus bipectinatus, mechanism of feeding on chickens

Feeding

- Benton, A. H.; Surman, M.; and Krinsky, W. L., 1979, *J. Parasitol.*, v. 65 (4), 671-672
Ceratophyllus niger, *Opisodasys pseudarc-tomys*, evidence that larval fleas feed by ingestion of liquid (whether blood or other body fluids) by sucking action and that they are predatory (attacking and killing even others of their own kind)

Feeding

- Binnington, K. C., 1978, *Internat. J. Parasitol.*, v. 8 (2), 97-115
Boophilus microplus, salivary glands during attachment and feeding, gross anatomy, number of cell types and changes in morphology during development, histochemistry, enzymes, physiological functions of cell secretions

Feeding

- Blake, B. H.; et al., 1978, *Ann. Entom. Soc. Am.*, v. 71 (3), 289-294
Psoroptes ovis, morphology of mouthparts, mechanism of feeding

Feeding

- Bogitsh, B. J., 1978, *Exper. Parasitol.*, v. 45 (2), 247-254
Schistosoma mansoni, uptake and fate of exogenous hemeproteins (horseradish peroxidase and hemoglobin) by schistosomes maintained in vitro

Feeding

- Brown, S. J.; Bohnsack, K. K.; and Atkins, M. D., 1979, *J. Kansas Entom. Soc.*, v. 52 (2), 258-265
Dermacentor variabilis, nymphs, effects of acclimation humidities on survival and subsequent attachment and engorgement on guinea pigs

Feeding

- Davey, K. G., 1969, *J. Fish. Research Bd. Canada*, v. 26 (4), 935-939
Phocanema decipiens, discontinuous feeding behavior during moulting cycle in culture

Feeding

- Davydov, O. N.; and Kosenko, L. Ia., 1972, *Parazitologiya*, Leningrad, v. 6 (3), 269-273
Ligula intestinalis, amylase in surface layer of plerocercoids and in media in which they were maintained, findings suggest capability of membrane (contact) digestion and absorption of food from host

Feeding

- Doube, B. M.; and Kemp, D. H., 1979, *Internat. J. Parasitol.*, v. 9 (5), 449-454
Boophilus microplus, attachment and survival of larvae on skin slices in vitro, influence of temperature, relative humidity, and host factors

Feeding

- Edler, A.; and Solomon, L., 1979, *Entom. Scand.*, v. 10 (2), 81-90
Laelaps agilis, description of preadult stages, notes on life history and feeding habits

Feeding

- Fried, B.; and Nelson, P. D., 1978, *Parasitology*, v. 77 (1), 49-55
Zygodontia lunata in domestic chicks, gross and histopathological effects on caecal tissues, feeding by worms on host caecal debris, stunting due to worm crowding

Feeding

- Galun, R.; Sternberg, S.; and Mango, C., 1978, *Bull. Entom. Research*, v. 68 (1), 153-157
Argas persicus, *Ornithodoros tholozani*, *O. moubata*, effects of several laboratory animals on tick feeding behaviour and reproduction

Feeding

- Gerasimova, N. G., 1971, *Parazitologiya*, Leningrad, v. 5 (2), 137-139
Xenopsylla skrjabini, *X. nuttalli*, females, rate of maturation (as assessed by darkening of spermatheca) depends upon number of feedings and environmental temperature

Feeding

- Hafez, M.; and Hilali, M., 1978, *Vet. Parasitol.*, v. 4 (3), 275-288
Hippobosca longipennis, biology in Egypt, laboratory observations: adult emergence, feeding mechanism, frequency and amount of blood meal, tolerance to starvation, sexual maturity, mating behavior, sex ratio, intra-uterine larval development, larviposition and description of 3rd larval stage, adult longevity and fecundity, description of pupa, pupal duration (effect of temperature, relative humidity, and host)

Feeding

- Hafez, M.; Hilali, M.; and Fouda, M., 1977, *Ztschr. Ang. Entom.*, v. 83 (4), 426-441
Hippobosca equina, field-collected and laboratory-reared on guinea pigs, biology, adult males vs. females (feeding, longevity of starved adults in 2 seasons, longevity of normal adults and fecundity in 2 seasons, effect of presence of males on fecundity of females, sexual maturation, sex ratio); larval stage (larviposition, description, and duration of 3rd larval stage; seasonal intra-uterine larval development); pupal stage (duration, effect of temperature and humidity)

Feeding

- Hase, T.; et al., 1978, J. Parasitol., v. 64 (4), 712-718
Leptotrombidium spp., mice, local host tissue reactions at sites of feeding, modes of stylostome (feeding tube) formation, possible importance of stylostome characteristics to transmission of rickettsial organisms

Feeding

- Hefnawy, T.; Khalil, G. M.; and Sidrak, W., 1979, J. Med. Entom., v. 15 (5-6), 445-451
Ornithodoros savignyi, blood meal weight and heme content during developmental cycles, technique for determining exact instar

Feeding

- Hess, E.; and Guggenheim, R., 1977, Ztschr. Parasitenk., v. 53 (2), 189-199
Mesocestoides corti tetrathyridium, microtriches and sensory processes on surface, transmission and scanning electron microscopy, microtriches may have roles in tissue penetration and food uptake

Feeding

- Isaac, I. S., 1977, J. Med. Entom., v. 13 (4-5), 609-611
Argas arboreus, effect of blood meal weight on nymphal instar numbers

Feeding

- John, S. E.; and Nair, N. B., 1977, Zool. Anz., Jena, v. 198 (1-2), 68-74
Lernaeenicus hemirhamphi, head and oral muscles and processes, description, function, method of feeding

Feeding

- Kearn, G. C., 1978, Internat. J. Parasitol., v. 8 (4), 305-311
Horricauda rhinobatidis and *Troglocephalus rhinobatidis* from *Rhinobatos batillum* (gills), level of infestation, microhabitat, larval development of *Horricauda*, possible role of certain structures in attachment and feeding: Queensland, Australia

Feeding

- Kearn, G. C., 1979, Internat. J. Parasitol., v. 9 (6), 545-552
 skin-parasitic monogeneans of fish, occurrence of gut pigment in relation to habitat (host dorsal vs. ventral surface), pigment distribution in upper skin of fish hosts, chemical nature of pigment; *Entobdella soleae* does not contain gut pigment and does not damage host dermis during feeding

Feeding

- Khotenovskii, I. A., 1972, Parazitologiya, Leningrad, v. 6 (1), 79-82
Pleurogenidae, *Lecithodendriidae*, *Plagiorchidae*, parasites of bats, morphology, localization in host intestine, and mode of feeding briefly discussed as examples of adaptive evolution of the parasites

Feeding

- Kondrashova, Z. N.; Kotel'nikova, G. M.; and Kolotvinov, S. V., 1973, Parazitologiya, Leningrad, v. 7 (5), 437-442
Dermacentor spp., *Ixodes persulcatus*, experimental studies of salivation

Feeding

- Kosminskii, R. B.; et al., 1979, Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool. (2), 48-53

Amphipsylla rossica, ecology, field and laboratory studies: feeding, reproduction, development, survival, and longevity under various conditions of temperature and humidity; age composition and physiological state of populations in different months; abundance on *Microtus arvalis* and in its nests and burrow entrances in different months: Transcaucasian highlands

Feeding

- Langley, P. A., 1976, J. Med. Entom., v. 13 (2), 121-130
 hematophagous arthropods, initiation and regulation of ingestion

Feeding

- Lee, T. D. G.; and Wright, K. A., 1978, Canad. J. Zool., v. 56 (9), 1889-1905
Trichuris muris in *Mus musculus*, morphology of attachment and probable feeding site, light, scanning, and transmission electron microscopy

Feeding

- Lom, J., 1971, Folia Parasitol., v. 18 (3), 197-205
Trichophrya piscium, fine structure in relation to fish host, feeding, attachment, ultrastructural evidence is in favour of ectocommensal nature of this protozoan

Feeding

- McMullen, H. L.; and Sauer, J. R., 1978, Experimentia, v. 34 (8), 1030-1031
Amblyomma americanum, relationship of phosphodiesterase and cyclic AMP to the process of fluid secretion in salivary glands of feeding female ticks

Feeding

- Musatov, V. A., 1978, Veterinariia, Moskva (6), 57-61
 ixodid ticks, pathology of host skin reaction to bite and feeding, nonspecific (innate) reaction and specific immune reaction

Feeding

- Norval, R. A. I., 1975, Proc. 1. Cong. Entom. Soc. South. Africa, 195-201
 host-tick interactions reviewed: tick feeding mechanism and innate and acquired host resistance; host specificity

Feeding

- Norval, R. A. I., 1978, J. Parasitol., v. 64 (5), 910-917
Amblyomma hebraeum, repeated feeding on rabbits and sheep, tick yield, engorged weight, and engorgement period, no acquisition of resistance by host, seasonal fluctuations in engorged weights appear to be due to changes in host physiology as result of low temperature acclimatization, tick yield is determined by amount of host grooming, feeding periods of larvae and nymphs are dependent on host skin temperature

Feeding

- Nosek, J.; Rajcani, J.; and Kozuch, O., 1978, Zentralbl. Bakteriologie, 1. Abt. Orig., Reihe A, v. 242 (2), 141-147
Ixodes ricinus, penetration and host tissue reactions during feeding of viruliferous ticks on Mesocricetus auratus (exper.)

Feeding

- Oormazdi, H.; and Baker, K. P., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 185-187
Bovicola bovis, examination of dietary constituents

Feeding

- Rahman, S. A.; and Waddell, A. H., 1979, Current Sc., Bangalore, v. 48 (7), 322-324 [Letter]
Ancylostoma caninum, Strongylus spp., methods and modified apparatus for studying in vitro feeding behavior and pharyngeal activity

Feeding

- Rahman, S. A.; and Waddell, A. H., 1979, Indian Vet. J., v. 56 (7), 604-607
Strongylus edentatus, feeding sites on caecal mucosa of horse, worm intestinal contents, histological study

Feeding

- Reitblat, A. G.; Kalmykova, N. P.; and Emel'ianov, P. F., 1978, Zool. Zhurnal, v. 57 (11), 1732-1735
mites from nests of suslik, feeding on flea eggs and larvae and blood and albumen, comments on regular feeding habits; possible influence on flea populations

Feeding

- Romestand, B., 1979, Ann. Parasitol., v. 54 (4), 423-448
Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts

Feeding

- Roy, P.; and Dasgupta, B., 1971, South African J. Med. Sc., v. 36 (4), 85-91
blowflies, parasitic development on living vertebrates, preference for brain tissue when feeding, invertebrates were poor breeding material

Feeding

- Scorza, J. V., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (2), 97-105
Plasmodium tropiduri, P. berghei, P. gallinaceum, intraerythrocytic stages, morphological and enzyme cytochemical observations on phagotrophy

Feeding

- Senotrusova, V. N., 1973, Parazitologiya, Leningrad, v. 7 (4), 307-311
Haemogamasus kitanoi, biology and distribution in Kazakhstan (life cycle, feeding, reproduction, survival, parthenogenesis, starvation periods)

Feeding

- Sheikh, N. A., 1977, Pakistan J. Scient. Research, Lahore, v. 29, 1-6
Rhipicephalus appendiculatus, rabbits, immune response to different number of ticks feeding at same time, engorgement and moulting periods, amounts of blood ingested; density dependent effect possibly due to increased cellular reaction of sensitized host

Feeding

- Shemesh, M.; et al., 1979, Bull. Entom. Research, v. 69 (3), 381-385
Hyalomma anatolicum excavatum, synthesis and content of prostaglandins in salivary glands, reproductive organs, and egg-batches, higher in females than males

Feeding

- Waladde, S. M.; Kemp, D. H.; and Rice, M. J., 1979, Internat. J. Parasitol., v. 9 (2), 89-95
Boophilus microplus attached on artificial membranes, feeding electrograms and fluid uptake measurements

Feeding

- Wanchinga, D. M.; and Sonenshine, D. E., 1978, Zambia J. Sc. and Technol., v. 3 (2), 25-30
Amblyomma maculatum, feeding and development, effects of vitamin and mineral deficiencies in host Rattus norvegicus diet

Fertility. See Reproduction.

Fever

- Pandey, N. N.; and Mishra, S. S., 1978, Indian Vet. J., v. 55 (2), 139-143
Babesia bigemina, cow calves (exper.), clinical symptoms as related to percentage of parasitaemia in various stages of disease as basis for timely diagnosis and treatment, highest parasitaemia at peak of fever

Fiji

- Munro, R., 1978, Fiji Agric. J., v. 40 (2), 91-96
arthropod parasites of domesticated livestock: Fiji

Fiji

- Munro, R.; and Munro, H. M. C., 1978, Austral. Vet. J., v. 54 (1), 44 [Letter]
faecal egg counts, dogs: Fiji
(Ancylostoma caninum; Strongyloides; Toxocara; Trichuris)

Fine structure. See Morphology.

Finland

- Kyrönseppä, H.; and Pettersson, T., 1976, Scand. J. Infect. Dis., v. 8 (3), 199-202
human intestinal parasites, survey of inmates of institution for mentally retarded, hospital patients, military servicemen and prisoners: Finland
(Entamoeba coli; E. hartmanni; E. histolytica; Chilomastix mesnili; Iodamoeba butschlii; Endolimax nana; Giardia lamblia; Trichuris trichiura; Enterobius vermicularis; Diphyllobothrium latum)

Fixation. See Technique, Specimen preparation and preservation.Fluorescent antibody. See Immunofluorescence.Foci. [See also Disease transmission; Epidemiology]

Foci

- Dubrovskii, Iu. A., 1978, [Gerbillinae and the natural foci of cutaneous leishmaniasis], 184 pp., illus., maps
cutaneous leishmaniasis, epizootiology, natural foci, role of Gerbillinae

Forecasting

Bukshtynov, V. I., 1978, Veterinariia, Moskva (9), 60-62

Oestrus ovis, sheep, temperature as most significant factor in predicting time of development in relation to season

Forecasting

Leimbacher, F., 1978, Rev. Med. Vet., Toulouse, v. 129 (7), 1027-1046

Fasciola hepatica, sheep, assessment of earlier forecast, practical interest for large scale use as guide in establishment of control programs: Limousin

Forecasting

McGowan, M. J.; Camin, J. H.; and McNew, R. W., 1979, J. Parasitol., v. 65 (5), 692-699
Haemaphysalis leporispalustris infestations of juvenile and adult Sylvilagus floridanus from January 1974-December 1975 in Douglas County, Kansas, relationship to skin-sensitizing antibody production, models used to interpret data show promise for predicting tick population fluctuations and incidence of vector borne disease outbreaks, implications of existence of resistance to tick attachment

Forecasting

Ollerenshaw, C. B.; Graham, E. G.; and Smith, L. P., 1978, Vet. Rec., v. 103 (21), 461-465
parasitic gastroenteritis, lambs, forecasting incidence in late summer, correlation with rainfall of current year and dryness of previous late summer and autumn: England and Wales

Forecasting

Ricciardi, I.; and Sanches, R. C. H., 1977, An. Microbiol., Rio de Janeiro, v. 22, 1976-1977, 141-165
P[lasmodium] vivax, method for determination of periods of disease transmission by analyses of regional or local climatograms: Brazil

Forecasting

Samurov, M. A., 1977, Zool. Zhurnal, v. 56 (11), 1649-1653
Xenopsylla conformis, population density increases and decreases, yearly cycles and distribution, statistical prediction method, possible factors: Volga-Ural sands

Forecasting

Takizawa, T.; and Ito, T., 1977, National Inst. Animal Health Quart., Tokyo, v. 17 (4), 179-183
secular trends of annual morbidities of animal infectious diseases (including bovine trichomoniasis), mathematical models, possible application in morbidity forecasting

Forecasting

Thomas, R. J.; and Starr, J. R., 1978, Vet. Rec., v. 103 (21), 465-468
sheep nematodes, pattern of infective larvae on pasture, correlation between time of summer peak and cumulative rainfall, possible use in forecasting onset of major infection in lambs

Forecasting

Volkov, V. I.; and Ershov, N. E., 1979, Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool. (4), 69-73

Ixodes persulcatus, computer analysis of numbers in relation to various ecological factors, including numbers of hosts and climatic conditions, 1962-1976, basis for predicting abundance: Priamur'ia

Formosa. See Taiwan.Fossil parasites. See Parasitology, History.

France

Duong, T. H.; et al., 1979, Med. Trop., v. 39 (6), 659-663

parasitological survey, South East Asian refugees: Touraine, France
(Clonorchis sinensis; Heterophyes heterophyes; Trichuris trichiura; Necator americanus; Strongyloides stercoralis; Giardia intestinalis; Entamoeba histolytica)

Freezing. [See also Technique, Specimen preparation and preservation; Temperature]

Freezing

Alboiu, M.; Popescu, S.; and Negru, D., 1978, Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur, v. 13, 165-171

Trichinella spiralis larvae in experimentally infested swine meat, morphological changes and viability following freezing and cryodesiccation

Freezing

Amato Neto, V.; dos Santos, R. R.; and Gioia, I., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (3), 129-132

Trypanosoma cruzi, parasite survival in frozen infected human plasma, implications for human plasma transfusions

Freezing

Becker, J. H. R., 1979, South African J. Surg., v. 17 (1), 43-45

Echinococcus, human, surgical evacuation of hepatic cyst using a cryogenic cone, sterilization of cavity with silver nitrate, prevents spillage of cyst fluid and possible anaphylactic shock

Freezing

Bemrick, W. J., 1978, Cryobiology, v. 15 (2), 214-218

strongylid larvae, equine, survived freezing in water followed by immersion in liquid nitrogen, freezing did not affect viability

Freezing

Bos, H. J.; et al., 1978, Acta Leidensia, v. 46, 17-30

cryopreservation of parasitic protozoa

Freezing

Brener, Z.; Filardi, L. S.; and Cuba, C., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (1), 16-19

Trypanosoma rangeli from salivary glands and haemolymph of Rhodnius ecuadoriensis, successful preservation in liquid nitrogen, infective for mice after 30 days preservation, with subsequent normal cyclical transmission

Freezing

- Carroz, J. R., 1977, Schweiz. Arch. Tierh., v. 119 (10), 425-431
Toxoplasma, cattle, pigs, Sabin-Feldman dye test; no evidence of infective *Toxoplasma* in meat stored between 0 and 4°C for 3 weeks, proper cooking of meat excludes the possibility of transmitting toxoplasmosis: Lausanne abattoir

Freezing

- Dick, T. A.; and Belosevic, M., [1979], J. Parasitol., v. 64 (6), 1978, 1143-1145
Trichinella spiralis, Churchill isolate from polar bear, infectivity for laboratory animals (mice, rats, golden hamsters), effects of freezing before and after passaging in experimental animals

Freezing

- Eaton, R. D. P., 1979, Canad. Med. Ass. J., v. 120 (1), 22 [Letter]
Trichinella spiralis, Arctic strain, evidence that meat is not rendered safe from trichinosis by freezing at any temperature for any length of time

Freezing

- Filardi, L. S.; and Brener, Z., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (5), 301-305
Trypanosoma cruzi, laboratory-reared *Triatoma infestans*, cryopreservation of infective stages within intact vector may be useful for storing laboratory-adapted strains and naturally infected vectors collected in field studies

Freezing

- Fuxa, J. R.; and Brooks, W. M., 1979, J. Invert. Path., v. 33 (1), 86-94
Vairimorpha necatrix, mass production and storage methods

Freezing

- Gothe, R.; and Hartmann, S., 1979, Ztschr. Parasitenk., v. 58 (2), 189-190
Aegyptianella pullorum, cryopreservation does not affect ability to propagate in *Argas walkerae*

Freezing

- Granath, W. O., jr.; and Huizinga, H. W., 1978, Exper. Parasitol., v. 46 (2), 230-246
Chandlerella quiscalis, effects of 4 cryoprotectants and 3 freezing methods on survival of microfilariae from *Quiscalus quiscalis*, postfreezing viability of microfilariae in young chickens, unsuccessful attempt to infect *Culicoides variipennis*

Freezing

- Ham, P. J.; James, E. R.; and Bianco, A. E., 1979, Exper. Parasitol., v. 47 (3), 384-391
Onchocerca spp., cryopreservation of microfilariae and subsequent development in insect host

Freezing

- Hellesnes, I.; and Mohn, S. F., 1977, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 238 (1), 143-148
Toxoplasma gondii cysts, infectivity for white mice after various periods of freezing, role of low temperatures as limiting factor in epidemiology of toxoplasmosis

Freezing

- Hilwig, R. W.; Cramer, J. D.; and Forsyth, K. S., 1978, Vet. Parasitol., v. 4 (3), 215-219
Taenia saginata, freezing times and temperatures required to kill cysticerci in beef

Freezing

- Iusupov, K. A.; and Shchetkin, V. Iu., 1971, Parazitologiya, Leningrad, v. 5 (3), 209-211
Leishmania tropica major, optimum procedure for lyophilization of cultures

Freezing

- Jadin, J.; Timperman, G.; and De Ruysser, F., 1975, Ann. Soc. Belge Med. Trop., v. 55 (6), 603-608
Plasmodium b. berghei, pyrimethamine-resistant strain preserved at very low temperature for 11 years, maintained virulence but lost drug resistance, gametocytogenesis increased, cyclical transmission was successful, parasites crossed blood-brain barrier indicating this strain could serve as laboratory model for *P. falciparum* cerebral malaria

Freezing

- Kunstyr, I.; and Ammerpohl, E., 1978, Lab. Animals, v. 12 (2), 95-97
Spironucleus muris, faecal cysts, resistance to physical and chemical factors tested, data may be useful for control of infection in rodents and for cryopreservation of parasite

Freezing

- Matuschka, F. R.; and Werner, H., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (3), 388-396
Toxoplasma bradyzoites from *Mastomys natalensis* (cerebral tissue), not infectious or able to replicate after 24 hours of storage under freezing at -20°C, no intact bradyzoites demonstrable, changes in structure and substance of cells and cysts

Freezing

- Michel, R.; et al., 1979, Ztschr. Parasitenk., v. 58 (3), 211-231
Toxoplasma gondii, fine-structure changes in trophozoites after deep-freeze preservation with dimethyl sulphoxide

Freezing

- Migioia, S., 1978, Vet. Med. and Small Animal Clin., v. 73 (8), 1073-1076
Habronema sp. larvae, horses (legs, nares), cryosurgical treatment (double freeze-thaw cycle), good results

Freezing

- Parker, R.; Parker, M. L.; and Wilson, A. J., 1978, Research Vet. Sc., v. 25 (3), 401-402
Anaplasma marginale complement fixation test antigens, liquid nitrogen storage by a multiple small aliquot technique

Freezing

- Payne, R. C., 1978, Research Vet. Sc., v. 24 (3), 375
Babesia major, cryopreservation of infected bovine blood, preserved in liquid nitrogen for use in indirect fluorescent antibody test

Freezing

- Raether, W.; et al., 1977, Ztschr. Parasitenk., v. 54 (2), 149-163
Entamoeba histolytica trophozoites, fine-structural changes after deep freezing in liquid nitrogen

Freezing

- Raether, W.; and Seidenath, H., 1977, Ztschr. Parasitenk., v. 53 (1), 41-46
 parasitic protozoans, survival following prolonged storage in liquid nitrogen, some species successfully recovered after preservation for over 10 years

Freezing

- Sauerlaender, R., 1979, Ztschr. Parasitenk., v. 59 (1), 53-66
Muellerius capillaris in *Cepaea nemoralis* (exper.), exposure period, developmental period from 1st to 3rd stage larvae, individual exposure vs. mass exposure, superinfections, infectivity following storage below freezing-point, localization of larvae, host cellular reaction

Freezing

- Schiller, E. L.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 997-1009
Onchocerca volvulus, details of methodology for cryopreservation and in vitro cultivation

Freezing

- Shaddock, J. A.; and Polley, M. B., 1978, J. Protozool., v. 25 (4), 491-496
Encephalitozoon cuniculi, propagation in vitro using rabbit choroid plexus (RCP) cells, some factors influencing infectivity and replication (passage level of organisms; passage level, age, and source of RCP cells; antibiotics; storage time and temperature including freezing; elevated temperature; chemical disinfectants; centrifugation; physical and chemical treatments)

Freezing

- Stirewalt, M. A.; Lewis, F. A.; and Murrell, K. D., 1979, Exper. Parasitol., v. 48 (2), 272-281
Schistosoma mansoni, cryopreservation of schistosomules

Freezing

- Teetor-Barsch, G. E.; and Kramer, J. P., 1979, J. Invert. Path., v. 33 (3), 300-306
Octosporea muscaedomesticae, *Nosema algerae*, *N. whitei*, effect of lyophilization on infectivity of spores

Freezing

- Warhurst, D. C.; and Wright, S. G., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 601 [Letter]
Giardia intestinalis, cryopreservation

Freezing

- Zurliński, P., 1978, Vet. Med. Nauki, v. 15 (7), 107-116
Nematodirus spathiger eggs and larvae in water, dry, and in feces, effects of freezing or high temperatures

Fungi

- Andrews, J. D., 1967, Proc. 1966 National Shellfish. Ass., v. 57, 38-49
Minchinia nelsoni (MSX), interaction with fungus pathogen *Dermocystidium marinum*, oysters, MSX prevents *D. marinum* from becoming epizootic

Fungi

- Dyner, E., 1978, Acta Parasitol. Polon., v. 25 (11-20), 97-108
Trichomonas vaginalis, *Bodo urinarius*, growth in presence of various bacteria and fungi, possible implications

Fungi

- Fuxa, J. R., 1979, J. Invert. Path., v. 33 (3), 316-323
Vairimorpha necatrix, interactions with bacterium, virus, and fungus in *Heliothis zea* (exper.)

Fungi

- Kamionek, M.; Sandner, H.; and Seryczynska, H., 1974, Acta Parasitol. Polon., v. 22 (22-34), 357-363
Neoplectana carpocapsae, greater mortality of insect hosts in presence of mixed fungal infections

Fungi

- Krizkova, L.; Balanova, J.; and Balan, J., 1979, Biologia, Bratislava, s. C, Biol. (1), v. 34 (3), 241-245
 antiprotozoal and antinematodal activity of *Fungi imperfecti* from soil samples collected in Mongolia

Fungi

- Lysek, H., 1978, Parasitology, v. 77 (2), 139-141
Ascaris lumbricoides, effect of ovicidal fungus (*Verticillium chlamydosporium*) on eggs, scanning electron microscopy

Fungi

- Meola, S.; and DeVaney, J., 1976, J. Invert. Path., v. 28 (2), 195-201
Lipeurus caponis, *Menopon gallinae*, *Menacanthus stramineus*, parasitism by the fungus *Trenomyces histophorus*, resulting damage to fat body and skeletal muscle

Fungi

- Naik, S. R.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 493-494
Giardia lamblia-infected vs. normal human jejunum, presence and frequency of *Candida albicans* and other fungi

Fungi

- Stepien, H., 1977, Przegl. Epidemiol., v. 31 (3), 299-303
Enterobius vermicularis, *Trichuris trichiura*, *Ascaris lumbricoides*, children, enteric parasites modify quantitatively and qualitatively the host intestinal flora

Fungi

- Stirling, A. M.; and Platzer, E. G., 1978, J. Invert. Path., v. 32 (3), 348-354
Romanermis culicivora parasitized by *Catenaria anguillulae*, disease controlled by rearing nematodes in water adjusted to a pH of 4.5

Gametes. [See also Gametogenesis]

Gametes

- Abbas, M.; and Cain, G. D., 1979, Cell and Tissue Research, v. 200 (2), 273-284
Ascaris suum, in vitro activation and behavior of the ameboid sperm

Gametes

- Black, J.; and Smith, B. F., 1977, Microbios Letters (23-24), v. 6, 111-116
Eimeria brunetti, microgametogony and macrogametogony, ultrastructure

Gametes

- Burghardt, R. C.; and Foor, W. E., 1978, J. Ultrastructure Research, v. 62 (2), 190-202
Ascaris suum, morphology of male gamete, membrane fusion events during spermiogenesis, functional aspects

Gametes

- Feldman-Muhsam, B.; et al., 1973, J. Insect Physiol., v. 19 (5), 951-962
Ornithodoros savignyi, spermatophore evagination

Gametes

- Fujino, T.; Ishii, Y.; and Mori, T., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 240-255
Paragonimus ohirai, *Eurytrema pancreaticum*, spermatozoa and spermiogenesis, scanning and transmission electron microscopy

Gametes

- Kelsoe, G. H.; Ubelaker, J. E.; and Allison, V. F., 1977, Ztschr. Parasitenk., v. 54 (2), 175-187
Hymenolepis diminuta, fine structure of spermatogenesis and spermiogenesis, description of mature spermatozoon

Gametes

- Kocan, A. A.; and Kocan, K. M., [1979], J. Parasitol., v. 64 (6), 1978, 1057-1059
Leucocytozoon ziemanni, elongate gametocytes, fine structure

Gametes

- Landau, I.; et al., 1979, Compt. Rend. Acad. Sc., Paris, v. 288, s. D, Sc. Nat. (5), 521-522
Plasmodium yoelii, gametocytes, morphological characters as indication of age, infectivity, and periodicity

Gametes

- Marchand, B.; and Mattei, X., 1978, Biol. Cell., v. 31 (1), 79-89
Acanthocephala 10 spp., nucleocytoplasmic derivative formation during spermiogenesis and its transformation after insemination

Gametes

- Marchand, B.; and Mattei, X., 1978, J. Ultrastructure Research, v. 63 (1), 41-50
Neoechinorhynchus agilis, flagellogenesis, positioning and disorganization of spermatid axoneme

Gametes

- Marchand, B.; and Mattei, X., 1979, J. Ultrastructure Research, v. 66 (1), 32-39
Neoechinorhynchus agilis, ultrastructural modification of ovarian ball and spermatozoa after insemination of female, role of passive vs. active penetration

Gametes

- Martin, S. K.; et al., 1978, Exper. Parasitol., v. 44 (2), 239-242
Plasmodium gallinaceum, induction of male gametocyte exflagellation by phosphodiesterase inhibitors, implicates cyclic nucleotides in initiation of this process

Gametes

- Mokhtar-Maamouri, F., 1979, Ztschr. Parasitenk., v. 59 (3), 245-258
Phyllobothrium gracile, spermiogenesis, spermatozoon ultrastructure, electron microscopy

Gametes

- Oliver, J. H., jr., 1974, J. Med. Entom., v. 11 (1), 26-34
Ixodoidea, reproduction (gametogenesis, mate finding, copulation, sperm behavior and longevity, syngamy, oviposition), review

Gametes

- Pittilo, R. M.; and Ball, S. J., 1979, Parasitology, v. 79 (2), 259-265
Eimeria maxima, fine structure of developing macrogamete

Gametes

- Rees, F. G., 1979, Internat. J. Parasitol., v. 9 (5), 405-419
Cryptocotyle lingua, spermatozoon, spermiogenesis, ultrastructure

Gametes

- Shyamasundari, K., 1976, Acta Parasitol. Polon., v. 24 (11-19), 199-202
Myzostomum gopalai, M. striatum, cytochemistry of female gametes, phospholipid nature of conspicuous yolk bodies in oocyte cytoplasm

Gametes

- Suleiman, S. A.; and Brown, G. G., 1977, Proc. 14. Ann. Electron Micro. Colloq., 14-15
Dermacentor variabilis, D. andersoni, ultrastructure of spermatozoa

Gametes

- Swiderski, Z.; and Eklun-Natey, R. D., 1978, Electron Micro., v. 2, Biol., 572-573
Proteocephalus longicollis, spermatozoon, fine structure

Gametes

- Wuest, J.; et al., 1978, Ztschr. Parasitenk., v. 55 (1), 91-99
Amblyomma hebraeum, morphology of spermatid and spermatozoon

Gametogenesis. [See also Gametes; Meiosis; Reproduction]

Gametogenesis

- Adams, T. S., 1979, J. Med. Entom., v. 15 (5-6), 484-487
Cochliomyia hominivorax, oogenesis, effect of constant temperatures

Gametogenesis

- Adams, T. S.; and Reinecke, J. P., 1979, J. Med. Entom., v. 15 (5-6), 472-483
Cochliomyia hominivorax, quantitative and qualitative description of oogenesis

Gametogenesis

- Albertson, D. G.; Nwaorgu, O. C.; and Sulston, J. E., 1979, *Chromosoma*, v. 75 (1), 75-87
Strongyloides papillosus, 2 major karyotypes of eggs from feces of rabbits (2L2M and L3MS), oogenesis in parasitic females, generation of L3MS karyotype by chromatin diminution, chromosomal mechanism of sex determination

Gametogenesis

- Bazitov, A. A., 1978, *Biol. Moria, Vladivostok* (2), 87-91
Bothrioccephalus scorpii, spermatogenesis described

Gametogenesis

- Bazitov, A. A. Kulakovskaia, O. P.; and Sheshtakova, K. A., 1979, *Vestnik Zool., Akad. Nauk Ukrainsk. SSR, Inst. Zool.* (2), 20-24
Biacetabulum appendiculatum, spermatogenesis

Gametogenesis

- Benazzi, M.; and Benazzi Lentati, G., 1976, *Animal Cytogenet.*, v. 1, 182 pp.
 platyhelminthes, gametogenesis, chromosome pattern, cycles, and evolution, reproductive mechanisms, cytotaxonomy

Gametogenesis

- Bogdanov, Iu. F., 1978, *Tsitologiya*, v. 20 (4), 460-463
Ascaris suum males, meiosis, unusual early formation of synaptonemal-like polycomplexes in spermatocyte cytoplasm

Gametogenesis

- Burghardt, R. C.; and Foor, W. E., 1978, *J. Ultrastructure Research*, v. 62 (2), 190-202
Ascaris suum, morphology of male gamete, membrane fusion events during spermiogenesis, functional aspects

Gametogenesis

- Durfort, M., 1978, *Bol. R. Soc. Espan. Hist. Nat., Secc. Biol.*, v. 75, 1977, 71-86
Mytilicola intestinalis from *Mytilus edulis*, female gonad, ultrastructural study, germinal cells during ovogenesis; protozoan parasite in germinal cells

Gametogenesis

- Fujino, T.; Ishii, Y.; and Mori, T., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (4), 240-255
Paragonimus ohirai, *Eurytrema pancreaticum*, spermatozoa and spermatogenesis, scanning and transmission electron microscopy

Gametogenesis

- Goldstein, P., 1978, *Chromosoma*, v. 66 (1), 59-69
Ascaris lumbricoides var. *suum*, ultrastructural analysis of sex determination, first spermatocyte meiotic division, origin of univalent chromosomes

Gametogenesis

- Jensen, J. B., 1979, *J. Protozool.*, v. 26 (1), 129-132
Plasmodium falciparum, gametocytogenesis in continuous cultures, crescent development with regard to timing of sequential stages, current culture methods cannot produce continuous supply of functional gametes for further studies

Gametogenesis

- Kelsoe, G. H.; Ubelaker, J. E.; and Allison, V. F., 1977, *Ztschr. Parasitenk.*, v. 54 (2), 175-187
Hymenolepis diminuta, fine structure of spermatogenesis and spermiogenesis, description of mature spermatozoon

Gametogenesis

- Manier, J. F.; et al., 1977, *Ann. Sc. Nat., Zool. et Biol. Animale*, 12 s., v. 19 (4), 439-458
Naobranchia cygniformis, structure of male genital apparatus, spermiogenesis, electron microscopy

Gametogenesis

- Marchand, B.; and Mattei, X., 1978, *Biol. Cell.*, v. 31 (1), 79-89
Acanthocephala 10 spp., nucleocytoplasmic derivative formation during spermiogenesis and its transformation after insemination

Gametogenesis

- Marchand, B.; and Mattei, X., 1978, *J. Ultrastructure Research*, v. 63 (1), 41-50
Neoechinorhynchus agilis, flagellogenesis, positioning and disorganization of spermatid axoneme

Gametogenesis

- Mokhtar-Maamouri, F., 1979, *Ztschr. Parasitenk.*, v. 59 (3), 245-258
Phyllobothrium gracile, spermiogenesis, spermatozoon ultrastructure, electron microscopy

Gametogenesis

- Molon-Noblot, S., 1978, *Ann. Sc. Nat., Zool. et Biol. Animale*, 12. s., v. 20 (2), 79-97
Grebickiella gracilis, gametogenesis, electron microscopy

Gametogenesis

- Mutafova, T., 1976, *Khelmitologiya, Sofia*, v. 2, 68-74
Ascaris suum, morphology and behavior of sex chromosomes during meiosis

Gametogenesis

- Nijhout, M. M., 1979, *Exper. Parasitol.*, v. 48 (1), 75-80
Plasmodium gallinaceum, exflagellation stimulated by mosquito factor

Gametogenesis

- Nijhout, M. M.; and Carter, R., 1978, *Parasitology*, v. 76 (1), 39-53
Plasmodium gallinaceum, gamete development, quantification of gamete development, changes in pH and pCO₂ during gametogenesis, suppression and recovery of exflagellation, bicarbonate requirement for emergence and exflagellation, regulation of gametogenesis by pH

Gametogenesis

- Nollen, P. M., 1978, *J. Parasitol.*, v. 64 (4), 613-616
Philophthalmus gralli, development and movement of reproductive cells and inseminatory behavior studies using techniques of transplantation and autoradiography

Gametogenesis

- Nollen, P. M.; and Pyne, J. L., 1979, *J. Parasitol.*, v. 65 (1), 35-37
Megalodiscus temperatus adults in *Rana pipiens*, timing stages of spermatogenesis, inseminative behavior, techniques used include labelling of spermatogonial cells with ³H-adenosine, method for transplanting worms to frogs, and autoradiography

Gametogenesis

- Oliver, J. H., jr., 1974, *J. Med. Entom.*, v. 11 (1), 26-34
 Ixodoidea, reproduction (gametogenesis, mate finding, copulation, sperm behavior and longevity, syngamy, oviposition), review

Gametogenesis

- Osburn, R. L.; and Oliver, J. H., jr., 1978, *J. Parasitol.*, v. 64 (4), 719-726
Dermacentor variabilis, effects of metopa on cytology and fertility of males treated as unfed adults

Gametogenesis

- Rees, F. G., 1979, *Internat. J. Parasitol.*, v. 9 (5), 405-419
Cryptocotyle lingua, spermatozoon, spermiogenesis, ultrastructure

Gametogenesis

- Robinson, J. M.; and Bogitsh, B. J., 1978, *Ztschr. Parasitenk.*, v. 56 (1), 81-92
Hymenolepis diminuta, sperm development, light and electron microscopy, cytochemistry

Gametogenesis

- Rousset, V.; et al., 1978, *Ztschr. Parasitenk.*, v. 55 (1), 75-89
Chondracanthus angustatus reproductive apparatus, anatomy, histology, and spermiogenesis

Gametogenesis

- Rune, W. M.; Rune, G. L.; and Lauter, F. H., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1008-1014
Rhabdias ranae, determination of somatic, diploid, and haploid chromosome numbers; spermatogenesis, oogenesis, and fertilization; method of sex determination and chromosome elimination

Gametogenesis

- Sinden, R. E.; et al., 1978, *Proc. Roy. Soc. London, s. B., Biol. Sc.* (1145), v. 201, 375-399
Plasmodium falciparum, gametocyte and gamete development, ultrastructure of gametocytes from blood of naturally infected Gambians compared with immature forms from blood of chloroquine treated patient, functional morphology, cytogenetics, phylogeny

Gametogenesis

- Sinden, R. E.; and Smalley, M. E., 1979, *Parasitology*, v. 79 (2), 277-296
Plasmodium falciparum, modified microculture technique used as bioassay for various antimetabolites by examining their ability to inhibit gametocytogenesis; characterization of sexual cell-cycle

Gametogenesis

- Suleiman, S. A.; and Brown, G. G., 1978, *Iowa State J. Research*, v. 53 (2), 93-108
Dermacentor variabilis, spermiogenesis, morphology, development, and significance of motile organelle

Gametogenesis

- Toye, P. J.; Sinden, R. E.; and Canning, E. U., 1977, *Ztschr. Parasitenk.*, v. 53 (2), 133-141
Plasmodium yoelii nigeriensis mature gametocytes incubated with various metabolic inhibitor antibiotics, effects on microgametogenesis studied, results show de novo synthesis of axonemes and proteins essential to microgametogenesis, some results suggest possibility that de novo RNA synthesis is also required

Gametogenesis

- Wharton, D. A., 1979, *Parasitology*, v. 78 (2) 131-143
Aspiculuris tetraptera, gross morphology of reproductive system, oogenesis, fertilization, egg-shell formation, cap cell and rachis, cytoplasmic inclusions of oocyte, formation of uterine layers

Gametogenesis

- Wysoki, M.; and Bolland, H. R., 1978, *Genetica*, v. 48 (3), 233-238
Rhipicephalus spp., spermatogenesis, chromosomes, sex determination: East Africa

Gametogenesis

- Wysoki, M.; and Bolland, H. R., 1979, *Genetica*, v. 50 (1), 73-77
Amblyomma variegatum, A. lepidum, course and timing of spermatogenesis, sex determination, and chromosome numbers

Gamma radiation. See Radiation.Gastritis. [See also Stomach]

Gastritis

- Tham, K. T., 1979, *J. Trop. Med. and Hyg.*, v. 82 (1), 21-22
Strongyloides, man, gastritis, case report

Gastritis

- Varma, S.; et al., 1978, *Arch. Vet., Inst. Cercet. Vet. si Bioprep. Pasteur*, v. 13, 41-46
 nematodes, pigs (nat. and exper.), gross and histopathological changes in stomach wall, chronic gastritis: Hissar, India

Gastroenteritis. [See also Intestine; Stomach]

Gastroenteritis

- Ollerenshaw, C. B.; Graham, E. G.; and Smith, L. P., 1978, *Vet. Rec.*, v. 103 (21), 461-465
 parasitic gastroenteritis, lambs, forecasting incidence in late summer, correlation with rainfall of current year and dryness of previous late summer and autumn: England and Wales

Gastroenteritis

- Pott, J. M.; Jones, R. M.; and Cornwell, R. L., 1978, *Internat. J. Parasitol.*, v. 8 (5), 331-339
 parasitic gastroenteritis and bronchitis in untreated grazing calves, epidemiology (pasture larval counts, fecal egg and larval counts, clinical assessment, weight gains, worm counts in tracer calves), evidence that resistance to *Cooperia* and *Dictyocaulus* was acquired more readily than to *Ostertagia*, inhibition of development of *Ostertagia* and *Cooperia* became evident at end of trial period

Gastroenteritis

- Watt, I. A.; et al., 1979, *Lancet*, London (8148), v. 2, 893-894
Anisakinae larva, woman, eosinophilic gastroenteritis, surgical removal, case report: United Kingdom

Gel diffusion. See Immunity, Precipitation.

Gel filtration. [See also Chromatography]

Gel filtration

Moser, G.; et al., 1978, J. Protozool., v. 25 (1), 119-124

Plasmodium berghei, *P. knowlesi*, *P. cynomolgi*, purification of sporozoites by passage through DEAE-cellulose column, retention of ability to produce infection, to induce protective immunity, and to react with known antisera

Gel fractionation. See Chromatography; Gel filtration.

Genes. See Chromosomes; Genetics.

Genetics. [See also Adaptation; Chromosomes; Evolution]

Genetics, Host

Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 161-175

Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to moderate primary infection, concluded that genetic resistance operated primarily against worm establishment and was probably controlled by the immune response elicited, in heavy infections there was no correlation between worm establishment and haemoglobin type

Genetics, Host

Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 177-187

Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to re-infection (either after primary infection was terminated with anthelmintic or challenge superimposed on existing adult infection), patterns of worm establishment and disease indicated that genetic factors operated in determining resistance, breed but not haemoglobin type appeared to be of some significance in 'self-cure'

Genetics, Host

Altaif, K. I.; and Dargie, J. D., 1978, Research Vet. Sc., v. 24 (3), 391-393

Ostertagia circumcincta, Scottish Blackface sheep of different haemoglobin type, sheep of haemoglobin type A more resistant to infection than type B

Genetics, Host

Apt, W.; Gallegos, D.; and Milet, R., 1975, Rev. Med. Chile, v. 103 (9), 587-593

Toxoplasma gondii, study of persons with acute and chronic forms of infection for evidence of chromosome aberrations, brief discussion of possible pathogenic mechanism of chromosomal damage in the presence of infections

Genetics, Host

Bienzie, U.; Guggenmoos-Holzmann, I.; and Luzatto, L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 619-621

malaria, gene for erythrocyte glucose-6-phosphate dehydrogenase deficiency in heterozygous females confers advantage against malaria: Nigeria

Genetics, Host

Borda, C. E.; and Pellegrino, J., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (3), 157-164
Schistosoma mansoni, 2 Brazilian strains, susceptibility of *Biomphalaria tenagophila* and *B. glabrata* snails from Argentina and Brazil

Genetics, Host

Bradley, D. J., 1977, Clin. and Exper. Immunol., v. 30 (1), 130-140

Leishmania donovani, acute growth rates in 25 inbred mouse strains fall into susceptible and resistant groups, breeding experiments show that single gene or linkage group controls acute susceptibility to this parasite in the mouse

Genetics, Host

Bradley, D. J.; et al., 1979, Clin. and Exper. Immunol., v. 37 (1), 7-14

Leishmania donovani, mapping of locus controlling susceptibility in the mouse

Genetics, Host

Camus, D.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 77-79

Schistosoma mansoni, differences in susceptibility to infection related to human blood types

Genetics, Host

Choudhry, V. P.; et al., 1978, Trop. and Geogr. Med., v. 30 (3), 331-335

malaria, chloroquine-induced haemolysis and acute renal failure in children with glucose-6-phosphate dehydrogenase deficiency

Genetics, Host

Civil, R. H.; and Mahmoud, A. A. F., 1978, J. Immunol., v. 120 (3), 1070-1072

Bacillus Calmette-Guerin (BCG) induces non-specific resistance to *Schistosoma mansoni* in only certain strains of inbred mice, BCG-induced protection does not correlate with increases in spleen weight and is not associated with genes of the major histocompatibility complex of the mouse

Genetics, Host

Claas, F. H. J.; and Deelder, A. M., 1979, J. Immunogenet., v. 6 (3), 167-175

Schistosoma mansoni, mice of 2 congenic inbred strains, immune response (worm burden, mortality, antibody titre, spleen index, eosinophilia, delayed type hypersensitivity, in vitro response to 3 *S. mansoni* antigen preparations), results indicate H-2 region influences course of acute infection but not susceptibility to infection

Genetics, Host

Collins, W. E.; et al., 1979, Mosquito News, v. 39 (3), 466-472

Plasmodium falciparum, *P. vivax* (2 strains), *Anopheles freeborni* (exper.), susceptibility of natural and selected pupal color phenotypes to infection

Genetics, Host

Cornille-Brögger, R.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 173-183

malaria in normal subjects and those with sickle cell trait, determination of plasma immunoglobulins and antimalarial antibodies, findings suggest that during infancy early phagocytosis of parasitized cells led to enhanced processing of antigen and hence earlier immune response to sickle cell trait

Genetics, Host

Cuperlovic, K.; Altaif, K. I.; and Dargie, J. D., 1978, *Research Vet. Sc.*, v. 25 (1), 125-126

sheep with hemoglobin AA showed better antibody response to some non-parasitic antigens than those with hemoglobin BB, results indicate that greater resistance of the former sheep to gastrointestinal nematodes is a reflection of superior immunological competence

Genetics, Host

Cvetkovic, Lj.; et al., 1978, *Acta Parasitol. Iugoslavica*, v. 9 (2), 75-79

Haemonchus contortus-infected sheep, genetic resistance, cigaja breed more resistant to infection than merino breed

Genetics, Host

Deelder, A. M.; Claas, F. H. J.; and De Vries, R. R. P., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 321-322 [Letter]

Schistosoma mansoni, mice with strain differences in H-2 gene complex, no differences in worm burden but considerable differences in mortality and in antibody titer

Genetics, Host

Dineen, J. K.; Gregg, P.; and Lascelles, A. K., 1978, *Internat. J. Parasitol.*, v. 8 (1), 59-63

Trichostrongylus colubriformis, colostrum-fed vs. colostrum-deprived lambs, vaccination with irradiated larvae at weaning, results do not support proposition that feedback inhibition mediated by maternal antibody may suppress response, however lambs segregated into 'responders' and 'non-responders' suggesting that genetically determined factors play important role in responsiveness of lambs, globule leucocytes may be involved in resistance mechanism but probably not eosinophils or neutrophils

Genetics, Host

Dowling, D. F., 1978, *Austral. Vet. J.*, v. 54 (1), 47 [Letter]

genetic breeding of tick-resistant cattle: Australia

Genetics, Host

Eckman, J. R.; et al., 1976, *Tr. Ass. Am. Physicians*, v. 89, 105-115

Plasmodium berghei-infected mice (exper.), vitamin E deficiency moderates severity of infection since premature, oxidant-induced hemolysis of infected erythrocytes prevents orderly parasite maturation, restoration of susceptibility to malaria by vitamin E supplementation, observations provide basis for selective advantage of G-6-PD deficiency in areas of endemic malaria

Genetics, Host

Eckman, J. R.; and Eaton, J. W., 1979, *Nature, London* (5706), v. 278, 754-756

Plasmodium berghei may utilize host-cell NADPH for maintenance of parasite glutathione, these observations may elucidate both parasite-induced red cell oxidant damage and mechanism whereby glucose-6-phosphate dehydrogenase deficiency protects against fulminant malaria infection

Genetics, Host

Eling, W.; van Zon, A.; and Jerusalem, C., 1977, *Ztschr. Parasitenk.*, v. 54 (1), 29-45

Plasmodium berghei in mice, 6 different host strains compared, course of infection, mortality patterns, parasitemia, pathological changes, host genetic variation, implications for laboratory model studies

Genetics, Host

Facer, C. A.; and Brown, J., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 599-600 [Letter]

P[lasmodium] falciparum, no significant difference in frequency of ABO antigens between children with malaria and controls, confirms previous investigations: The Gambia

Genetics, Host

Fleming, A. F.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 161-172

Plasmodium spp., human, prevalence of abnormal hemoglobins, relationships between sickle cell trait, malaria and survival of host: Garki District, Kano State, Nigeria

Genetics, Host

Friedman, M. J., 1979, *Nature, London* (5719), v. 280, 245-247

Plasmodium falciparum, α - and δ -thalassaemia trait red cells from adults, fetal red cells, and glucose-6-phosphate dehydrogenase deficiency red cells are refractory to parasite development because of oxidant sensitivity

Genetics, Host

Friedman, M. J.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 777-780

Plasmodium falciparum, in vitro cultures, host cell competence of abnormal hemoglobin-containing erythrocytes, evolutionary significance of results

Genetics, Host

Gavora, J. S.; and Spencer, J. L., 1978, *World's Poultry Sc. J.*, v. 34 (3), 137-148

breeding for genetic resistance to disease, specific vs. general disease resistance

Genetics, Host

Gold, D.; and Kagan, I. G., 1978, *J. Parasitol.*, v. 64 (5), 937-938

Entamoeba histolytica, susceptibility of various strains of mice to liver inoculation, infections were obtained in 6 of 9 strains but no strain was consistently susceptible

Genetics, Host

Goodgame, R. W.; and Bartholomew, R. K., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (4), 779-781

Schistosoma mansoni, human, alpha-1-antitrypsin deficiency does not play significant role in pathogenesis of hepatosplenic disease

Genetics, Host

Hunter, K. W., jr.; et al., 1979, *J. Immunol.*, v. 123 (1), 133-137

Plasmodium yoelii, defective resistance in CBA/N mice, demonstrates that X-linked gene that affects B cell function influences malarial resistance in mice

Genetics, Host

- Itskan, S. B.; and Saldanha, P. H., 1975, Pev. Inst. Med. Trop. S. Paulo, v. 17 (2), 83-91
human malaria, erythrocyte glucose-6-phosphate dehydrogenase activity in infected and non-infected persons in endemic region: Sao Paulo (Iguape)

Genetics, Host

- Jaouni, K. C., 1979, Exper. Parasitol., v. 47 (1), 54-64
Entamoeba histolytica, genetic control of susceptibility in chicken eggs

Genetics, Host

- van der Kaay, H. J.; and Boorsma, L., 1977, Acta Leidensia, v. 45, 13-19
Plasmodium berghei berghei, selection of a fully susceptible strain of Anopheles atroparvus, not possible to obtain a completely refractive strain, effect of reciprocal matings between susceptible and refractive strains and of backcrosses of F1 offspring with these strains on susceptibility

Genetics, Host

- Klesius, P. H.; and Hinds, S. E., 1979, Infect. and Immun., v. 26 (3), 1111-1115
Eimeria ferrisi, comparison of susceptibility in various inbred and F₁ hybrid mouse strains and in nu/nu and nu/+ BALB/c mice, effect of treatment with rabbit anti-mouse thymocyte serum

Genetics, Host

- Kloosterman, A.; Albers, G. A. A.; and van den Brink, R., 1978, Vet. Parasitol., v. 4 (4), 353-368
Cooperia spp., half sib groups of Dutch Friesian calves (nat. and exper.), number and length of worms, egg output, serum antibodies, liveweight gain, concluded that within this breed genetic variation exists in resistance to Cooperia spp.

Genetics, Host

- Landolfo, S.; et al., 1979, Boll. Ist. Sieroterap. Milanese, v. 58 (1), 48-51
Trichomonas vaginalis, inbred strains of mice differing in histocompatibility complex and multiple strain background genes, resistance or susceptibility differences dependent on genes outside major histocompatibility complex

Genetics, Host

- Laser, H.; and Klein, R., 1979, Nature, London (5723), v. 280, 613-614 [Letter]
Plasmodium falciparum, protection given by haemoglobin S in heterozygotes for sickle cell gene, rebuttal to hypothesis of Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1978, Nature, London (5672), v. 274, 701-703

Genetics, Host

- Lopez Antunano, F. J.; and Palmer, T. T., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 319 [Letter]
Plasmodium vivax, high susceptibility of Duffy blood group-negative Aotus trivirgatus griseimembra

Genetics, Host

- Martin, S. K.; et al., 1978, Lancet, London (8062), v. 1, 466-468
Plasmodium falciparum, low erythrocyte pyridoxal-kinase activity in serum of non-infected Black and White races in comparison to that of infected Black persons; possible relation to malarial infection, possibly requirement of parasite

Genetics, Host

- Martin, S. K.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 216-218
Plasmodium falciparum, infected Nigerian children, survey of blood group antigens, no significant difference from healthy children

Genetics, Host

- Miller, L. H.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1069-1072
Plasmodium vivax, 13 American blacks infected while in Vietnam were all Duffy blood group positive, lends support to hypothesis that Duffy negative genotype is basis for resistance of blacks to vivax malaria

Genetics, Host

- Molineaux, L.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 301-310
sickle cell disease subjects living in hyper-endemic malarial area, numbers of malaria-infected persons, seroimmunologic test results, immunoglobulin levels, and age groups compared with subjects without sickle cell trait: Sudan savanna of Nigeria

Genetics, Host

- Morrison, W. I.; and Murray, M., 1979, Exper. Parasitol., v. 48 (3), 364-374
Trypanosoma congolense, mouse strains, genetic basis of observed differences in susceptibility to infection examined with F1 hybrids and backcrosses, influence of H-2 haplotype on susceptibility

Genetics, Host

- Murrell, K. D.; et al., 1979, J. Parasitol., v. 65 (5), 829-831
Schistosoma mansoni, influence of mouse strain on induction of resistance with irradiated cercariae, no obvious or simple relationship to mouse H-2 haplotype

Genetics, Host

- Nelson, W. A.; et al., 1977, J. Med. Entom., v. 13 (4-5), 389-428
host-ectoparasite interactions, review: hematologic and clinical manifestations of infestation, arthropod antigens and host antibodies raised against them, manifestations of antigen-antibody interaction, histopathologic reactions of skin to arthropod feeding and acquired resistance to arthropods, genetics of host resistance, economic effects of parasitism, speculation on nature of innate and acquired resistance

Genetics, Host

- Norman, L. M.; and Hohenboken, W., 1979, J. Animal Sc., v. 48 (6), 1329-1337
parasites, foot soundness, and attrition, crossbred ewes, genetic and environmental effects (irrigated vs. nonirrigated pastures): western Oregon

Genetics, Host

- Osoba, D.; et al., 1979, Immunogenetics, v. 8 (4), 323-338
Plasmodium falciparum, humans, role of major histocompatibility complex in antibody response under natural conditions: Tanzania

Genetics, Host

- Owen, R. R., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 193-195
Brugia pahangi, non-development in refractory *Aedes malayensis*, unsuccessful attempts to induce development by use of homogenates of susceptible mosquito species fed to females in sucrose solution, abnormal development in susceptible species fed corresponding regimen of *A. malayensis* homogenates

Genetics, Host

- Partono, F., 1979, Ann. Trop. Med. and Parasitol., v. 73 (1), 79-81
Wuchereria bancrofti-infected parental stocks of *Culex pipiens fatigans* from non-endemic filariasis areas did not contain a major gene conferring refractiveness to infection with urban *Wuchereria bancrofti* to their progeny

Genetics, Host

- Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1978, Nature, London (5672), v. 274, 701-703
Plasmodium falciparum, hemoglobin S has detrimental effect on parasite proliferation, this involves both invasion into red cell and growth once inside and requires conditions of low oxygen tension, actual sickling of cells concerned is not necessary, provides explanation for protection of sickle cell heterozygotes against *P. falciparum* malaria and thus for high frequency of sickle-cell gene in parts of world where malaria is or has been endemic

Genetics, Host

- Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1979, Nature, London (5723), v. 280, 614 [Letter]
Plasmodium falciparum, protection given by haemoglobin S in heterozygotes for sickle cell gene, answer to rebuttal of Laser, H.; and Klein, R., 1979, Nature, London (5723), v. 280, 613-614

Genetics, Host

- Pereira, F. E. L.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 238
Schistosoma mansoni, humans with Symmer's fibrosis, significantly higher frequency of blood group A than blood group O: Brazil

Genetics, Host

- Perez, H.; Labrador, F.; and Torrealba, J. W., 1979, Internat. J. Parasitol., v. 9 (1), 27-32
Leishmania mexicana, variations in response of 5 strains of mice (course of infection, delayed type hypersensitivity response, humoral antibody production), crossing experiments between resistant and susceptible strains suggest that resistance is inherited as dominant character

Genetics, Host

- Preston, J. M.; and Allonby, E. W., 1978, Vet. Rec., v. 103 (23), 509-512
Haemonchus contortus, comparison of susceptibility of 4 breeds of sheep and 3 breeds of goats to experimental infection while maintained on both high and low planes of nutrition: Kenya

Genetics, Host

- Preston, P. M.; Behbehani, K.; and Dumonde, D. C., 1978, J. Clin. and Lab. Immunol., v. 1 (3), 207-219
Leishmania tropica major, experimental cutaneous leishmaniasis, anergy and allergy in cellular immune response during non-healing infection in different strains of mice

Genetics, Host

- Reese, R. T.; et al., 1978, Proc. National Acad. Sc., v. 75 (11), 5665-5668
Plasmodium falciparum, immunization of Aotus monkeys grouped according to karyotype, antigenic material obtained from parasites cultivated in vitro for over a year, protective immunity can be induced without use of complete Freund's adjuvant if sufficient antigen is used together with synthetic muramyl dipeptide

Genetics, Host

- Riffkin, G. G.; and Dobson, C., 1979, Vet. Parasitol., v. 5 (4), 365-378
Haemonchus contortus, in vitro response of sheep lymphocytes to parasite antigens varied between animals but was heritable and positively correlated with resistance to infection, sheep which were most susceptible had lowest lymphocyte responses but highest rate weight gain during infection

Genetics, Host

- Rinderer, T. E.; and Sylvester, H. A., 1978, Ann. Entom. Soc. Am., v. 71 (3), 372-374
genetic characteristics of *Apis mellifera*, response to *Nosema apis*, longevity, and hoarding behavior

Genetics, Host

- Roth, E. F., jr.; et al., 1978, Science (4368 [error as 4365 on cover]), v. 202, 650-652
Plasmodium falciparum, increased sickling propensity of infected red cell under conditions of total and partial deoxygenation in vitro, results lend support to concept that heterozygotes for Hb S in malarious region may have improved fitness for survival which in turn maintains balanced polymorphism for Hb S gene

Genetics, Host

- Rothwell, T. L. W.; et al., 1978, Parasitology, v. 76 (2), 201-209
Trichostrongylus colubriformis, guinea pigs, establishment of two lines differing significantly in susceptibility to infection, difference probably based on genetically determined differences between ability of members of each line to bring about immune expulsion of parasite

Genetics, Host

- Salam, E. A.; Ishaac, S.; and Mahmoud, A. A. F., 1979, J. Immunol., v. 123 (4), 1829-1831
Schistosoma mansoni, human, histocompatibility-linked susceptibility for hepatosplenomegaly: Egypt

Genetics, Host

de Santana, J. V.; Magalhaes, L. A.; and Rangel, H. de A., 1978, Rev. Saude Pub., S. Paulo, v. 12 (1), 67-77

populations of *Biomphalaria tenagophila* and *B. glabrata* which are highly susceptible to *Schistosoma mansoni* strains from the Valley of Paraiba do Sul River and Belo Horizonte areas have been obtained after four generations by using a schedule of individual selections; this rapid genetic gain in susceptibility shows that molluscan susceptibility is highly inheritable and apparently conditioned by a few genes

Genetics, Host

Snyder, S. P.; England, J. J.; and McChesney, A. E., 1978, Vet. Path., v. 15 (1), 12-17
Cryptosporidium [sp.] in Arabian foals (intestine, stomach, pancreatic and bile ducts, gall bladder) with inherited combined immunodeficiency, mixed infection with adenovirus, difficult to separate effects of both agents: Colorado State University

Genetics, Host

Spencer, H. C.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 664-670
Plasmodium falciparum, *P. vivax*, human (Duffy blood group positive and negative, black and white), indirect fluorescent antibody titers, slide-demonstrated infection rates, Duffy negative genotype appears to be factor in resistance to *P. vivax*: Honduras

Genetics, Host

Storey, J.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 311-315
 malaria, immunoglobulins and antimalarial antibodies in haemoglobin AC individuals, little difference from rest of population except for higher IgG levels, suggests that haemoglobin C gene's geographical relationship to malaria may be coincidence: Sudan savanna of Nigeria

Genetics, Host

Tanner, C. E., 1978, J. Parasitol., v. 64 (5), 956-957

Trichinella spiralis, susceptibility of several inbred lines of mice differing at the H-2 histocompatibility locus, no significant differences found in level of infection between any of the different mouse strains used, results suggest that intensity of infections with *T. spiralis* is probably not controlled by genes of the H-2 region

Genetics, Host

Taylor, D. W.; and Siddiqui, W. A., 1979, J. Parasitol., v. 65 (2), 267-271

Plasmodium falciparum, susceptibility of *Aotus trivirgatus* in relation to geographic origin, phenotype, and karyotype

Genetics, Host

Trischmann, T.; et al., 1978, Exper. Parasitol., v. 45 (2), 160-168

Trypanosoma cruzi (Brazil strain), characteristics of resistant and susceptible strains of mice following challenge, results suggest a necessary association of natural resistance with the immune response, principal genetic determinant of resistance is not associated with H-2 haplotype

Genetics, Host

Tsang, C. L.; and Chen, K. H., 1977, J. Chinese Soc. Vet. Sc., v. 3 (2), 9-13
Eimeria tenella, several breeds of chickens, resistance and susceptibility correlated with heredity: Taiwan

Genetics, Host

Utech, K. B. W.; Seifert, G. W.; and Wharton, R. H., 1978, Austral. J. Agric. Research, v. 29 (2), 411-422
Boophilus microplus, resistance in selected *Bos taurus* and crossbred *B. taurus* x *B. indicus*, factors affecting resistance: age and sex of host, lactational status, pregnancy status, season, breed differences

Genetics, Host

Wakelin, D., 1978, Advances Parasitol., v. 16, 219-308
 genetic control of susceptibility and resistance to parasitic infection, review

Genetics, Host

Warren, M.; et al., 1979, Mosquito News, v. 39 (3), 472-477
Plasmodium vivax- and *P. falciparum*-infected *Anopheles albimanus* (exper.), susceptibility of natural pupal phenotypes to infection

Genetics, Host

Wassom, D. L.; David, C. S.; and Gleich, G. J., 1979, Immunogenetics, v. 9 (4-5), 491-496
Trichinella spiralis, genes within major histocompatibility complex influence susceptibility to infection in the mouse

Genetics, Host

Watanabe, N.; Kojima, S.; and Ovary, Z., 1976, J. Exper. Med., v. 143 (4), 833-845
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, non-specific suppressor T cells, characteristic of low and transient IgE antibody response in SJL mice is inherited as recessive trait controlled by single Mendelian autosomal gene and is not linked to H-2 gene complex

Genetics, Host

Williams, D. M.; Grumet, F. C.; and Remington, J. S., 1978, Infect. and Immun., v. 19 (2), 416-420

Toxoplasma gondii, mice, genetic control of resistance, data demonstrate that murine susceptibility to *T. gondii* is under multi-genetic control with at least one of genes linked to H-2 locus and different mechanisms of action are suggested for some of infection susceptibility genes because of phenomenon of genetic complementarity

Genetics, Parasite

Albertson, D. G.; Nwaorgu, O. C.; and Sulston, J. E., 1979, Chromosoma, v. 75 (1), 75-87
Strongyloides papillosus, 2 major karyotypes of eggs from feces of rabbits (2L2M and L3MS), oogenesis in parasitic females, generation of L3MS karyotype by chromatin diminution, chromosomal mechanism of sex determination

Genetics, Parasite

Baker, K. P.; and Oormazdi, H., 1978, Vet. Parasitol., v. 4 (1), 91-93
Bovicola bovis, optimal temperature for in vitro rearing in Ireland is at variance with that recorded by 2 authors in United States, possible that geographical genetic plasticity accounts for these differences

Genetics, Parasite

- Beverley-Burton, M., 1978, Environment. Biol. Fish., v. 3 (4), 369-377
Anisakis simplex in *Salmo salar*, parasite population genetics (acid phosphatase phenotypes), use as biological indicators of host stocks: Atlantic Ocean

Genetics, Parasite

- Bonner, T. P., 1979, J. Parasitol., v. 65 (1), 74-78
Nippostrongylus brasiliensis, 3rd-stage larvae, initiation of development in vitro evaluated on basis of morphology and RNA biosynthesis, effect of actinomycin-D, results support idea that elevation of temperature and certain nutritional components stimulate transcription of portion of genome coding for development into parasitic phase

Genetics, Parasite

- Britov, V. A., 1977, Genetika, v. 13 (6), 1025-1029
Trichinella, 4 spp., hybridization experiments to determine degree of genetic relationship

Genetics, Parasite

- Bull, M.; and Sara, G. J., 1976, J. Med. Entom., v. 13 (2), 137-142
Aponomma hydrosauri, esterase polymorphism controlled by 2 alleles at single locus, geographical distribution of allele frequencies, implications for population structure: upper Yorke Peninsula and Murray Mallee district, South Australia

Genetics, Parasite

- Cachon, J.; and Cachon, M., 1979, Arch. Protistenk., v. 122 (3-4), 267-274
Apodinium [sp.], morphology, singular kinetochore structure

Genetics, Parasite

- Carter, R., 1978, Parasitology, v. 76 (3), 241-267
Plasmodium berghei, *P. yoelii*, *P. vinckei*, *P. chabaudi*, and their subspecies, electrophoretic variation of enzymes glucose phosphate isomerase, 6-phosphogluconate dehydrogenase, lactate dehydrogenase, and glutamate dehydrogenase, detailed description of technique, genetic and taxonomic implications, key for identification of murine plasmodia by enzyme type

Genetics, Parasite

- Daskalov, P., 1976, Khelmintologiya, Sofia, v. 2, 50-60
Haemonchus contortus, genetic analysis through direct generation of different morphological types of females (smooth, knobbed, and flapped) fertilized under conditions of panmixia

Genetics, Parasite

- Grillo Torrado, J. M.; and Perez Arrieta, A., 1977, Rev. Med. Vet., Buenos Aires, v. 58 (4), 309-310, 313-314, 317-318, 321-322
Boophilus microplus, strain B, inheritance of phosphorus resistance to delnav is genetically conditioned

Genetics, Parasite

- Healy, J. A., 1979, Parasitology, v. 78 (1), 7-17
Ixodes ricinus, samples from several Irish localities and from spring and autumn ticks collected in one area, detection by electrophoresis of very high allelic variation at locus coding for phosphoglucosmutase, allele frequency patterns, both spatial and temporal genetic differentiation exist, possible use of this polymorphism in population and taxonomic studies, possible adaptive significance of polymorphism in autecology of parasite

Genetics, Parasite

- Healy, J. A., 1979, Genetica, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Genetics, Parasite

- Kelly, J. D.; et al., 1978, Research Vet. Sc., v. 25 (3), 376-385
Haemonchus contortus, effect of changes in genetic constitution associated with development of benzimidazole resistance on physiological characteristics of parasitic and free-living stages (infectivity, pathogenicity, exsheathment response, etc.)

Genetics, Parasite

- Le Jambre, L. F., 1979, Internat. J. Parasitol., v. 9 (5), 455-463
Haemonchus contortus, *Haemonchus placei*, hybridization experiments

Genetics, Parasite

- Le Jambre, L. F.; Royal, W. M.; and Martin, P. J., 1979, Parasitology, v. 78 (2), 107-119
Haemonchus contortus, thiabendazole resistance is inherited as an autosomal and semi-dominant trait

Genetics, Parasite

- Leon, W.; Fouts, D. L.; and Manning, J., 1978, Nucleic Acids Research, v. 5 (2), 491-504
Leishmania donovani, genome complexity and size, number, and sequence arrangement of rRNA genes

Genetics, Parasite

- Lourens, J. H. M., 1979, J. Econom. Entom., v. 72 (5), 790-793
Amblyomma variegatum, *A. lepidum*, baseline data on susceptibility to organochlorine acaricides, genetic basis for resistance in *A. variegatum*

Genetics, Parasite

- Lourens, J. H. M.; and Tatchell, R. J., 1979, Bull. Entom. Research, v. 69 (2), 235-242
Rhipicephalus evertsi evertsi, identification and inheritance of resistance factors to organochlorine acaricides, experimental hybrids between susceptible and resistant strains

Genetics, Parasite

Pfefferkorn, E. R.; and Pfefferkorn, L. C., 1979, *J. Parasitol.*, v. 65 (3), 364-370
Toxoplasma gondii, induction of mutants resistant to 5-fluorodeoxyuridine used to measure efficiency of various physical and chemical mutagens on extracellular and intracellular organisms

Genetics, Parasite

Polianskii, Iu. I., 1977, *Protozoology*, v. 3, 17-23
 aspects of species concept in asexually reproducing protozoa

Genetics, Parasite

Rollinson, D.; Joyner, L. P.; and Norton, C. C., 1979, *Parasitology*, v. 78 (3), 361-367
Eimeria maxima (Weybridge) and *E. maxima* (indentata) were distinguished by electrophoretic mobility of phosphoglucumutase, this enzyme was used as marker to detect genetic transfer of methyl benzoate resistance between resistant and sensitive lines of these parasites

Genetics, Parasite

Seilhamer, J. J.; and Byers, T. J., 1978, *J. Protozool.*, v. 25 (4), 486-489
Acanthamoeba castellanii, mutants resistant to erythromycin, chloramphenicol, and oligomycin

Genetics, Parasite

Shirley, M. W., 1978, *Ztschr. Parasitenk.*, v. 57 (1), 83-87
Eimeria mivati and *E. mivati* var. *diminuta* strains differing in sensitivity to sulphaminoxaline and electrophoretic mobility of lactate dehydrogenase crossed; electrophoretic variation of enzymes a further marker for genetic studies

Genetics, Parasite

Sood, M. L.; and Kaur, C., 1976, *Riv. Parassitol.*, Roma, v. 37 (1), 13-33
Haemonchus contortus utkalensis in goats, vulvar configurations, 17 variants identified among 3 phenotypes, seasonal occurrence in relation to temperature and humidity, order of dominance is knobbed > linguiform > smooth except in July when it is knobbed > smooth > linguiform: Ludhiana, India

Genetics, Parasite

Thomas, C.; and Prasad, R. S., 1978, *Experientia*, v. 34 (11), 1440-1441
Xenopsylla astia, populations from different localities, differences in chromosome numbers, morphological differences; sterility in hybrids between the two populations: Bombay; Trivandrum

Genetics, Parasite

Vickerman, K., 1977, *Protozoology*, v. 3, 57-69
Trypanosoma evansi, SAK strain, 4¹-6-diamidino-2-phenylindole (DAPI) staining of kinetoplast, dyskinetoplasty mutation, pleomorphism, comparison with other flagellates

Genetics, Parasite

Vrijenhoek, R. C., 1978, *J. Parasitol.*, v. 64 (5), 790-798
Contracaecum, 2 morphologically indistinct populations of larvae from *Poeciliopsis* spp. and *Cichlasoma baeni*, electrophoretic examination of proteins (enzymatic and non-enzymatic) produced by 11 gene loci revealed presence of 2 sexually reproducing sympatric 'semispecies' that have diagnostically distinct alleles for 2 loci: Sonora, Mexico

Genetics, Parasite

Williams, R. O.; Young, J. R.; and Majiwa, P. A. O., 1979, *Nature*, London (5741), v. 282, 847-849
Trypanosoma brucei, genomic rearrangements correlated with antigenic variation

Genetics, Parasite

Zulauf, E.; and Gut, C., 1978, *European J. Biochem.*, v. 82 (2), 577-583
Ascaris lumbricoides, isolation of messenger RNA coding for eggshell protein in this DNA-eliminating nematode

Geographic distribution

Baker, K. P.; and Oormazdi, H., 1978, *Vet. Parasitol.*, v. 4 (1), 91-93
Bovicola bovis, optimal temperature for in vitro rearing in Ireland is at variance with that recorded by 2 authors in United States, possible that geographical genetic plasticity accounts for these differences

Geographic distribution

Barus, V.; and Rysavy, B., 1971, *Folia Parasitol.*, v. 18 (1), 1-14
Trichostrongylidae, genera and species parasitizing bats of suborder *Microchiroptera*, morphological relationships, specificity to host families, and biogeography

Geographic distribution

Beverley-Burton, M.; and Pippy, J. H. C., 1978, *Environment. Biol. Fish.*, v. 3 (2), 211-222
Anisakis simplex in *Salmo salar*, sites of infection, prevalence, variation in mean numbers of larvae per fish in relation to host's sex, age, geographic locality, and year and season of capture; mean numbers as biological indicator of host stock composition: 14 sampling stations, North Atlantic

Geographic distribution

Brooks, D. R., 1978, *System. Zool.*, v. 27 (3), 312-323
Proteocephalidea, evolutionary history, morphological, zoogeographical, and host relationships, proposed classification

Geographic distribution

Brooks, D. R., 1979, *System. Zool.*, v. 28 (3), 299-307
 host-parasite coevolution, context and extent, phenomena of co-accommodation and co-speciation

Geographic distribution

Coy Otero, A.; and Barus, V., 1979, *Acta Scient. Nat. Brno, n. s.*, v. 13 (2), 3-43
 nematodes of reptiles, analysis of host range and zoogeographic distribution: Cuba

Geographic distribution

Earl, P. R., 1979, Tr. Am. Micr. Soc., v. 98 (4), 549-557

opalinids, taxonomy and problems of identification, factors of zoogeographical distribution (Metcalf's land bridges, continental drift and anuran dispersal)

Geographic distribution

Filippova, N. A., 1971, Parazitologiya, Leningrad, v. 5 (5), 385-391

Ixodes pavlovskiy, *I. persulcatus*, distribution, characteristics of distribution areas with respect to their paleogenesis: USSR

Geographic distribution

Filippova, N. A., 1973, Parazitologiya, Leningrad, v. 7 (1), 3-13

Ixodes persulcatus group, species belonging to southern branch, zoogeography, ecology, paleontology, relationship to *I. ricinus*

Geographic distribution

Fryer, G., 1970, Symposia Brit. Soc. Parasitol., v. 8, 103-118

parasitism of freshwater fishes by crustaceans and molluscs, geographical distribution, biological aspects, brief review

Geographic distribution

Kennedy, C. R., 1978, J. Fish Biol., v. 12 (5), 393-410

Eubothrium spp., fishes, specificity, distribution, and habitat, life cycle, use as biological tags, review

Geographic distribution

Kennedy, C. R., 1978, J. Fish Biol., v. 13 (4), 457-466

parasite fauna of *Salvelinus alpinus*, comparison of species composition, number, diversity, and equitability in lakes on Norwegian mainland and its offshore Arctic islands, results do not agree well with predictions of island biogeographical theory

Geographic distribution

Kolonin, G. V., 1978, [World distribution of ixodid ticks (genus *Haemaphysalis*)], 71 pp., maps

Geographic distribution

Korenberg, E. I., 1973, Parazitologiya, Leningrad, v. 7 (3), 238-243

Ixodes persulcatus, method for detailed large-scale mapping of tick distribution

Geographic distribution

Korenberg, E. I., 1978, Zhurnal Obsh. Biol., v. 39 (2), 227-235

Ixodes persulcatus, example of biochorological structure of species, hierarchical system, suggested units ranking from species down to population, geographic distribution to isolate all these categories

Geographic distribution

Krylov, M. V., 1971, Parazitologiya, Leningrad, v. 5 (3), 201-208

Piroplasmida, distribution in different host groups and zoogeographic regions, speculations on phylogeny

Geographic distribution

Lewis, R. E., 1974, J. Med. Entom., v. 11 (4), 403-413

Coptosyllidae, Pygiopsyllidae, Stephanocircidae, Xiphiopsyllidae, world-wide distribution by zoogeographic regions, host preferences; list of genera and species

Geographic distribution

Martens, J. M., 1974, Mitt. Hamburg. Zool. Mus. u. Inst., v. 70, 119-163

taxa of *Saemundssonina* occurring on Scolopacinae and Erolinae classified in 4 polytypic species; host-parasite relationships, distribution patterns, geographical and ecological factors

Geographic distribution

Rev. Prat., Paris, v. 27 (37), 1977, 2341-2409

Plasmodium spp., issue devoted to current status of human malarial with discussion on: life cycle, geographic distribution, immunopathology, diagnosis, clinical management, treatment and prophylaxis

Geographic distribution

Rohde, K., 1978, Biol. Zentralbl., v. 97 (4), 405-418

gill parasites of marine fish, species numbers and microhabitat utilization at different latitudes, assumption of greater evolutionary speed in tropics as probable explanation of latitudinal gradients in species diversity (more species in tropical than in cold water fishes)

Geographic distribution

Rohde, K., 1979, Am. Naturalist, v. 114 (5), 648-671

ectoparasites of fish, particularly Monogenea, critical evaluation of intrinsic and extrinsic factors responsible for niche restriction

Geographic distribution

Southgate, V. R., 1978, Ztschr. Parasitenk., v. 56 (2), 183-193

Schistosoma intercalatum, morphology of cercarial glands; aggregates of cercariae formed by adhesive post-acetabular gland secretions, physical factors triggering aggregation behavior and impairing invasion of final host; hybridization with *S. haematobium* and fate of hybrids among natural populations; hypotheses on cercarial aggregation behavior and natural hybridization as factors limiting distribution of *S. intercalatum*

Geographic distribution

Tokobaev, M. M., 1976, [Helminths of wild mammals of Central Asia. Attempt at ecological-geographic analysis], 178 pp.

helminths, wild mammals, systematics, ecological-geographic analysis, monograph: Central Asia

Geographic distribution

Traub, R., 1977, J. Med. Entom., v. 13 (6), 658-685

Tiflovia n. gen., taxonomy, convergent evolution, zoogeography and ecology

Geographic distribution

Whitaker, J. O., jr., 1979, Am. Midland Naturalist, v. 101 (1), 49-60

ectoparasites of *Zapus* spp., evolutionary and zoogeographical relationships: western North America

Georgia. See United States, Georgia.

Germany

- Bernhard, D.; Barth, D.; and Lamina, J., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (3), 45-46
gastrointestinal nematodes in dairy cattle: Germany
(*Ostertagia ostertagi*; *Cooperia oncophora*; *Trichostrongylus axei*; *Cooperia punctata*; *C. zurnabada*; *C. pectinata*; *Ostertagia lyrata*; *O. leptospicularis*; *Bunostomum phlebotomum*; *Skrjabinagia kolchida*; *Spiculopteragia boehmi*; *Nematodirus helvetianus*; *Haemonchus contortus*; *Trichostrongylus capricola*)

Germany

- Grosse, D.; and Boeckeler, W., 1979, Tierarztl. Umschau, v. 34 (7), 496-499
intestinal parasites, cats: Kiel, Germany
(*Hydatigera taeniaeformis*; *Toxocara mystax*; *Capillaria aerophila*; *Isospora felis*)

Germany

- Haupt, W.; et al., 1978, Monatsh. Vet.-Med., v. 53 (23), 912-914
endoparasites, pigs on forest-located fattening unit, review of several year study: Germany
(*Ascaris suum*; whipworm eggs; nodular worm eggs; coccidial occysts)

Germany

- Odening, K., 1978, Ang. Parasitol., v. 19 (1), 58-62
list of Trematoda in GDR, supplemented with hosts, habitats, and specific geographic localities

Germany

- Odening, K., 1978, Ang. Parasitol., v. 19 (3), 168-186
conclusion of systematic list of trematodes and their host species recorded from German Democratic Republic and adjacent region of Baltic Sea

Germany

- Schmitthenner, W., 1979, Tierarztl. Umschau, v. 34 (3), 174, 177-180, 183
intestinal parasites and Salmonella, calves, prevalence survey: Nordbaden und Nordwürttemberg
(*Kokzidien*; *Strongyloides*; *Strongylid* eggs; *Nematodirus*)

Germany

- Weissenburg, H.; and Bettermann, G., 1979, Tierarztl. Umschau, v. 34 (3), 170-174
endoparasites, swine, reduction in infection rates 1967-1977: Schleswig-Holstein
(*Ascaris suum*; *Trichuris trichiura*; *Coccidia*; *Hyostromylus*; *Oesophagostomum*)

Germfree animals. See Gnotobiotic animals.

Ghana

- Assoku, R. K. G., 1979, Bull. Animal Health and Prod. Africa, v. 27 (1), 29-39
blood parasites, livestock, incidence in relation to host sex and age and to husbandry and management practices: Accra Plains, Ghana
cattle (*Anaplasma marginale*; *A. centrale*; *Babesia bovis*; *B. major*; *B. bigemina*; *Trypanosoma brucei*; *T. congolense*; *T. vivax*; *Theileria parva*; *T. mutans*; *Eperythrozoon wenyonii*)
sheep (*A. marginale*; *A. centrale*; *B. ovis*; *B. motasi*; *T. brucei*; *T. vivax*)
goats (*A. marginale*; *A. centrale*; *B. ovis*; *B. motasi*; *T. brucei*; *T. vivax*)
pigs (*B. trautmanni*; *T. brucei*; *T. congolense*)

Ghana

- Oppong, E. N. W., 1979, Bull. Animal Health and Prod. Africa, v. 27 (1), 47-49
parasitic and other diseases, horses and donkeys, 1909-1975, brief tabular review: Ghana

Glands. [See also Gonads; Hormones]

Glands, Host

- Apt, W.; Barrera, R.; and Eggers, M., 1976, Rev. Med. Chile, v. 104 (3), 161-163
Echinococcus granulosus, human, cysts of thyroid, differential diagnosis by thin-needle biopsy, case reports: Chile

Glands, Host

- de Britto-Costa, R., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (5), 336-345
[Trypanosoma] cruzi-infected rats, alterations in function and morphology of anterior hypothalamus

Glands, Host

- de Britto Costa, R.; and Gallina, R. A., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (2), 92-98
Chagas disease, human, hypothalamus, pathological changes

Glands, Host

- Carvalho, N.; Netto, M. P.; and Dias Neto, A. L., 1979, AMB, Rev. Ass. Med. Brasil., v. 25 (5), 163-165
Trypanosoma cruzi, patients with chronic infection, associated thyroid mass is not a typical finding, survey of 30 patients: Brazil

Glands, Host

- Christensen, C. M.; and Dobson, R. C., 1979, J. Kansas Entom. Soc., v. 52 (2), 386-391
Haematobia irritans, attraction to Angus bulls and steers (testosterone propionate treated vs. nontreated), positive relationship between attractiveness and sebaceous gland numbers and cell numbers

Glands, Host

- Fahmy, M. H.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 353-356
hepatosplenic schistosomiasis, human, thyroid function tests, liver function tests, serum protein levels

Glands, Host

- Frank, C., 1977, Ztschr. Parasitenk., v. 53 (3), 307-310
Hepatozoon sylvatici transmitted from naturally to experimentally infected *Apodemus sylvaticus* and *A. flavicollis* by *Laelaps agilis*; *L. agilis* transmission of *H. sylvatici* to non-specific host, *Clethrionomys glareolus*; gonads of female mites possibly have stimulating effect on protozoan development; schizonts from bone marrow and liver of *Apodemus flavicollis* differ in morphology

Glands, Host

- Jaenson, T. G. T., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 234-238
Glossina pallidipes, virus-like rods associated with salivary gland hyperplasia, exceedingly heavy trypanosome infections found in some hyperplastic glands, unlikely that virus-like particles can be used as biological control agents if they are favoring development of trypanosomes

Glands, Host

- Kassim, O. O.; and Richards, C. S., 1978, *Exper. Parasitol.*, v. 46 (2), 213-217
Schistosoma mansoni, levels of lysozyme activity in *Biomphalaria glabrata* (hemolymph, digestive gland, and headfoot extracts) during infection with compatible and incompatible parasite strains, results suggest that lysozyme does not by itself play a major role in the destruction of a schistosome infection in a resistant snail host

Glands, Host

- Kassim, O. O.; and Richards, C. S., 1978, *Exper. Parasitol.*, v. 46 (2), 218-224
Biomphalaria glabrata (intermediate host of *Schistosoma mansoni*), lysozyme activities in hemolymph, digestive gland, and headfoot of uninfected snails

Glands, Host

- Kohlicek, J.; and Stankova, T., 1976, *Rozhl. Chir.*, v. 55 (9), Sept., 617-619
Trichomonas vaginalis, involvement of prostate gland with resulting chronic prostatitis, humans, diagnosis, clinical aspects

Glands, Host

- Mikhail, E. G.; and Milad, M., 1977, *Egypt. J. Vet. Sc.*, v. 13 (2), 1976, 99-105
Trichinella spiralis, rats (exper.), pathological changes in blood calcium and parathyroid activity

Glands, Host

- Tiboldi, T., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (4), 670-676
Schistosoma mansoni-infected mice, histopathological changes in ovaries in acute and chronic infections, pituitary hypofunction may contribute to pathological transformation of ovarian tissue

Glands, Host

- Tiboldi, T.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 873-875
Schistosoma mansoni, mice, morphology and function of adrenals in acute infection

Glands, Host

- Vestfrid, M. A.; et al., 1977, *Rev. Clin. Espan.*, v. 145 (2), 149-151
 human echinococcosis, report of 2 cases involving female mammary glands, recommendations for differential diagnosis: Argentina

Glands, Host

- Yoshino, T. P., 1976, *J. Invert. Path.*, v. 28 (2), 209-216
Euhaplorchis californiensis rediae, effect on digestive gland cells of *Cerithidea californica*, light and electron microscopy

Glands, Parasite

- Arme, C.; and Threadgold, L. T., 1976, *Rice Univ. Studies*, v. 62 (4), 21-34
Eubothrium crassum, presence of two types of tegumental cells and two types of unicellular glands in scolex, electron microscope study

Glands, Parasite

- Bhutta, M. S., 1977, *Biologia*, Lahore, v. 23 (2), 103-109
Cercaria parvicaudata, morphology and histochemistry of penetration and cystogenous gland cells

Glands, Parasite

- Binnington, K. C., 1978, *Internat. J. Parasitol.*, v. 8 (2), 97-115
Boophilus microplus, salivary glands during attachment and feeding, gross anatomy, number of cell types and changes in morphology during development, histochemistry, enzymes, physiological functions of cell secretions

Glands, Parasite

- Chinery, W. A., 1974, *J. Med. Entom.*, v. 11 (4), 480-487
Argas persicus salivary glands, Types I and II' alveoli, cytological and histochemical observations, structure and function compared with those of other ticks

Glands, Parasite

- Davies, C., 1979, *Internat. J. Parasitol.*, v. 9 (6), 553-564
Microphallus similis metacercariae and adults, forebody glands and surface features, scanning and transmission electron microscopy, cytochemistry, ultracytochemistry

Glands, Parasite

- Dorsey, C. H.; and Stirewalt, M. A., 1977, *Ztschr. Parasitenk.*, v. 54 (2), 165-173
Schistosoma mansoni cercariae, large concentrations of calcium in preacetabular glands localized in electron-lucent areas of type-A granules

Glands, Parasite

- Frank, C., 1977, *Ztschr. Parasitenk.*, v. 53 (3), 307-310
Hepatozoon sylvatici transmitted from naturally to experimentally infected *Apodemus sylvaticus* and *A. flavicollis* by *Laelaps agilis*; *L. agilis* transmission of *H. sylvatici* to non-specific host, *Clethrionomys glareolus*; gonads of female mites possibly have stimulating effect on protozoan development; schizonts from bone marrow and liver of *Apodemus flavicollis* differ in morphology

Glands, Parasite

- Gerasev, P. I., 1977, *Zool. Zhurnal*, v. 56 (12), 1757-1765
Dactylogyrus extensus, morphology and histology, with particular emphasis on glands

Glands, Parasite

- Goodrich, B. S.; and Murray, M. D., 1978, *Internat. J. Parasitol.*, v. 8 (4), 313-320
Ixodes holocyclus, association of toxin with salivary glands, increasing toxin content of salivary glands with length of time of feeding on mice, effect on toxin content of salivary glands of interruption to feeding, effect of passive immunization of mice on resistance of host to toxin and on toxin production, effect on toxin production of feeding on non-immune and immune bandicoots

Glands, Parasite

- Jones, G. M., 1979, *J. Morphol.*, v. 160 (3), 299-321
Syngamus trachea, amphids and amphidial glands, ultrastructure in newly moulted, immature, and mature adults, development of secretory activity

Glands, Parasite

- Kanwar, U.; and Agrawal, M., 1977, *Zool. Polon.*, v. 26 (2), 117-124
Diplodiscus amphichrus, cytochemical studies of Mehlis' gland cells

- Glands, Parasite
Krasnodembskii, E. G., 1973, Parazitologiya, Leningrad, v. 7 (5), 418-422
5 trematode species, maritae, glandular cells, morphology, localization, location in helminth body where their secretions are excreted
- Glands, Parasite
Kritsky, D. C., 1978, Proc. Helminth. Soc. Washington, v. 45 (1), 37-49
Gyrodactylus eucaliae, 3 distinct types of cephalic glands based on morphology and stain affinities of their secretions, structure of cephalic lobe and head organ
- Glands, Parasite
Leigh, W. H., 1978, J. Parasitol., v. 64 (5), 831-834
Odhneriotrema incommodum, life history observations: metacercarial stage in Lepisosteus platyrhincus shows marked affinity for female hosts; molluscan host unknown; migration after excystment in Alligator mississippiensis, host reaction (caused by secretions from parasite glands) forces relocation every few days, nature of host-parasite junction
- Glands, Parasite
Maathai, W. M. J. M., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 269-272
Rhipicephalus appendiculatus, fine structure of type (a) and (b) cells in salivary alveoli type II of unfed adults
- Glands, Parasite
Maathai, W. M. J. M., 1977, Bull. Animal Health and Prod. Africa, v. 25 (4), 415-419
Rhipicephalus appendiculatus, adult unfed ticks fed as nymphs on animals suffering from Theileria parva, fine structure of uninfected and infected salivary cell types (c) and (d)
- Glands, Parasite
McMullen, H. L.; and Sauer, J. R., 1978, Experimentia, v. 34 (8), 1030-1031
Amblyomma americanum, relationship of phosphodiesterase and cyclic AMP to the process of fluid secretion in salivary glands of feeding female ticks
- Glands, Parasite
Megaw, M. W. J., 1978, Nature, London (5644), v. 271, 483-484
Boophilus microplus, virus-like particles pathogenic to tick salivary glands, viruses pathogenic to ticks could have potential as biological control agents
- Glands, Parasite
Megaw, M. W. J.; and Beadle, D. J., 1979, Internat. J. Insect Morphol. and Embryol., v. 8 (2), 67-83
unfed Boophilus microplus, structure and function of salivary glands
- Glands, Parasite
Moczon, T., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (8), 531-535
Hymenolepis diminuta in Tenebrio molitor, histopathologic changes in host intestine caused by penetrating oncospheres suggest that secretion of penetration glands possesses enzymatic properties
- Glands, Parasite
Moczon, T., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (9), 619-622
Hymenolepis diminuta oncospheres, penetration gland secretion is a protein substance, histochemical studies
- Glands, Parasite
Needham, G. R.; and Sauer, J. R., 1979, J. Parasitol., v. 65 (4), 531-542
Amblyomma americanum, interaction of calcium, cyclic AMP, and dopamine in controlling salivary fluid secretion
- Glands, Parasite
Oshmarin, P. G., 1978, Zool. Zhurnal, v. 57 (8), 1125-1130
Trematoda, morphophysiology of yolk glands and egg formation, review
- Glands, Parasite
Ramalingam, K., [1972], An. Inst. Biol., Univ. Nac. Mexico, v. 41 (1), s. Zool., 1970, 145-154
Pricea multae, and other trematodes, role of vitelline cells and Mehlis' gland in formation of egg-shell
- Glands, Parasite
Rhoads, M. L.; et al., 1978, J. Biol. Chem., v. 253 (5), 1639-1642
Stephanurus dentatus, proteinase inhibitors from excretory gland cells, purification and properties, proteinase inhibitors also isolated and purified from other tissues as well as from culture medium after incubation with adult worms and compared with inhibitors from excretory gland cells
- Glands, Parasite
Riley, J.; James, J. L.; and Banaja, A. A., 1979, Parasitology, v. 78 (1), 53-66
Reighardia sterna, possible role of frontal and sub-parietal gland systems in evasion of host immune response, surface membrane system believed to be instrumental, related observations on Porocephalus crotali, parallels with situation of schistosome infections in mammals, alternative explanation of concomitant immunity
- Glands, Parasite
Sauer, J. R., 1977, J. Med. Entom., v. 14 (1), 1-9
ticks, physiology of salivary glands, review
- Glands, Parasite
Sauer, J. R.; Frick, J. H.; and Hair, J. A., 1974, J. Insect Physiol., v. 20 (9), 1771-1778
Amblyomma americanum, control of ^{36}Cl uptake by salivary glands
- Glands, Parasite
Shemesh, M.; et al., 1979, Bull. Entom. Research, v. 69 (3), 381-385
Hyalomma anatolicum excavatum, synthesis and content of prostaglandins in salivary glands, reproductive organs, and egg-batches, higher in females than males

Glands, Parasite

Southgate, V. R., 1978, Ztschr. Parasitenk., v. 56 (2), 183-193

Schistosoma intercalatum, morphology of cercarial glands; aggregates of cercariae formed by adhesive post-acetabular gland secretions, physical factors triggering aggregation behavior and impairing invasion of final host; hybridization with *S. haematobium* and fate of hybrids among natural populations; hypotheses on cercarial aggregation behavior and natural hybridization as factors limiting distribution of *S. intercalatum*

Glands, Parasite

Specian, R. D.; et al., 1979, J. Parasitol., v. 65 (4), 569-578

Hymenolepis spp., unicellular endocrine glands in scolex and anterior neck region, cytochemical and ultrastructural observations, muscle tissue implicated as target tissue, neurosecretory regulation postulated

Glands, Parasite

Spence, I. M.; and Silk, M. H., 1971, South African J. Med. Sc., v. 36 (3), 69-76

Schistosoma mansoni, Mehlis gland, ultrastructural anatomy

Glands, Parasite

Stirewalt, M., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 548-553

Schistosoma mansoni cercariae, preacetabular gland enzyme(s), quantitative collection and proteolytic activity

Glands, Parasite

Teel, P. D.; et al., 1978, Comp. Biochem. and Physiol., v. 61C (2), 297-300

Amblyomma maculatum feeding on fenthion-infused sheep, evidence of cholinergic neurotransmitter involvement in overall nervous control of ixodid tick salivary fluid secretion, principal cause of death in systemic organophosphate-poisoned ixodid ticks may be disruption of normal salivary gland function

Glands, Parasite

Thompson, R. C. A.; Dunsmore, J. D.; and Hayton, A. R., 1979, Exper. Parasitol., v. 48 (1), 144-163

Echinococcus granulosus, secretory activity of adults in situ in the dog, histological, histochemical, and ultrastructural studies

Glands, Parasite

Tongu, Y.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (5), 312-317

Metagonimus takahashii, M. yokogawai, fine structure of penetration gland cells

Glands, Parasite

Vernick, S. H.; et al., 1978, J. Parasitol., v. 64 (3), 515-523

Dermacentor andersoni, *D. variabilis*, ultrastructure of foveal glands (site of pheromone synthesis), evidence of secretory activity, storage, transport, and neural associations

Glands, Parasite

Zdarska, Z., 1970, Folia Parasitol., v. 17 (1), 31-47

Notocotylus attenuatus, cercaria, relationship of gland cells to layers of cyst wall of adolestercaria, morphology, histochemistry

Glands, Parasite

Zdarska, Z., 1971, Folia Parasitol., v. 18 (1), 15-25

Moliniella anceps, larval stages, histology and histochemistry of cystogenic gland cells and cyst wall, participation of gland cells of cercaria in origin of layers of cyst wall of metacercaria

Glands, Parasite

Zdarska, Z., 1971, Folia Parasitol., v. 18 (2), 119-125

Philophthalmus sp., cercaria, histology and histochemistry of cystogenic gland cells, formation of tegument

Globulins. See Immunoglobulins; Proteins.

Glucose. See Carbohydrates.

Glycogen. See Carbohydrates.

Glycolysis. See Carbohydrates; Metabolism.

Gnotobiotic animals

Bywater, J. E.; and Kellett, B. S., 1978, Infect. and Immun., v. 21 (2), 360-364

Encephalitozoon cuniculi, existence in specific-pathogen-free rabbit colony, small-sized samples failed to reveal presence of infection with low prevalence, organism probably present in original stock of unit, possibility of establishing *Encephalitozoon*-free colony by culling all positive reactors using India ink immunoreaction test, incidence (familial, sexual, and age-related) and possible routes of transmission

Gnotobiotic animals

Bywater, J. E. C.; and Kellett, B. S., 1978, Lab. Animal Sc., v. 28 (4), 402-404

Encephalitozoon cuniculi, specific pathogen-free rabbit colony, diagnosis by modified India-ink immunoreaction test, eradication by culling of seropositive animals

Gnotobiotic animals

Coudert, P.; Licois, D.; and Streun, A., 1979, Ztschr. Parasitenk., v. 59 (3), 227-234

Eimeria perforans, isolation of pure strain using specific-pathogen free rabbits, measurements, sporulation time, pathogenicity

Gnotobiotic animals

Jervis, H. R.; and Takeuchi, A., 1979, Am. J. Path. (440), v. 94 (1), 197-200

Entamoeba histolytica, germfree guinea pigs, pathological changes, usefulness as an animal model

Gnotobiotic animals

Overdulse, J. P., 1978, Proc. K. Nederl. Akad. Wetensch., s. C, Biol. and Med. Sc., v. 81 (1), 19-32

Toxoplasma gondii, germfree, gnotobiotic and conventional cats, life cycle studies

Gnotobiotic animals

Overdulse, J. P., 1978, Proc. K. Nederl. Akad. Wetensch., s. C, Biol. and Med. Sc., v. 81 (1), 33-58

Toxoplasma gondii, germfree, gnotobiotic and conventional cats, life cycle studies, morphology of intra-intestinal stages

Gnotobiotic animals

- Owen, D., 1978, Lab. Animals, v. 12 (2), 49-50
Eimeria stiedae, *E. intestinalis*, standard rabbit diet heavily contaminated with oocysts, sterilization by autoclaving and irradiation was satisfactory for elimination of oocysts from diet but pelleting even at 68° was unsatisfactory

Gnotobiotic animals

- Owen, D., 1978, Lab. Animals, v. 12 (2), 79-80
Entamoeba coli of human and primate origin, attempted transmission to specified-pathogen-free rodents, results indicate that rodent-human contact is probably not responsible for infiltration of SPF barriers

Gnotobiotic animals

- Przyjalkowski, Z., 1974, Acta Parasitol. Polon., v. 22 (22-34), 345-349
Aspiculuris tetraptera, development and establishment in gnotobiotic mice contaminated with *Escherichia coli* vs. conventional mice (both exper.)

Gnotobiotic animals

- Przyjalkowski, Z., 1977, Acta Parasitol. Polon., v. 25 (1-10), 63-68
Hymenolepis nana in germfree vs. conventional mice, establishment, growth, and rate of expulsion, results suggest that conditions for cestode growth in germfree mice were less favorable than in conventional mice

Gnotobiotic animals

- Przyjalkowski, Z., 1978, Acta Parasitol. Polon., v. 25 (11-20), 169-178
Trichinella spiralis in germfree vs. conventional mice, intensity of infection (greater in conventional mice), elimination of adult worms (earlier and more complete in germfree mice), changes in packed cell volume and differential leukocyte counts (higher eosinophilia in germfree mice), concluded that intestinal microflora plays important role in establishment and elimination of intestinal trichinellae

Gnotobiotic animals

- Przyjalkowski, Z., 1978, Acta Parasitol. Polon., v. 25 (21-35), 287-292
Trichinella spiralis in conventional mice and in germfree mice also infected with *Staphylococcus epidermidis* (alone or associated with *Escherichia coli*), numbers of established intestinal trichinellae, time of their expulsion, packed cell volumes, and white blood cell counts, results indicate that size of infective dose, age of mice, and type of intestinal flora play role in course of experimental trichinosis

Gnotobiotic animals

- Przyjalkowski, Z., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (5), 331-336
Trichinella pseudospiralis, conventional and germfree mice, effect of intestinal flora on course of infection and haematological changes

Gnotobiotic animals

- Przyjalkowski, Z.; Bany, J.; and Golinska, Z., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (5), 325-329
Trichinella pseudospiralis, germfree and conventional mice, immunoglobulin and haemagglutinating antibody levels compared

Gnotobiotic animals

- Przyjalkowski, Z.; Cabaj, W.; and Kontny, E., 1979, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 27 (1), 61-68
Trichinella spiralis, larvae decontaminated with antibiotics and normal larvae, determination of lethal dose for conventional and germfree mice

Gnotobiotic animals

- Przyjalkowski, Z.; and Gorecka, T., 1976, Acta Parasitol. Polon., v. 24 (1-10), 57-67
Angiostrongylus cantonensis in germfree and conventional mice, establishment and migration, packed cell volume and differential white blood cell counts, in neither hosts did parasites reach maturity

Gnotobiotic animals

- Przyjalkowski, Z.; and Malinowska, A., 1977, Acta Parasitol. Polon., v. 25 (1-10), 69-77
Trichinella spiralis-infected germfree vs. conventional mice, some metabolites and enzymes of carbohydrate metabolism in liver and small intestine

Gnotobiotic animals

- Przyjalkowski, Z.; and Warton, A., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (2), 99-101
Trichinella spiralis, conventional and germfree mice, pathology, small intestine epithelium, scanning electron microscopy

Gnotobiotic animals

- Sebesteny, A., 1979, Lab. Animals, v. 13 (3), 189-191
 intestinal protozoa, successful transmission to and establishment in specific-pathogen-free mice exposed to intestinal contents of infected hamsters

Gonads. [See also Glands; Reproductive organs]

Gonads, Host

- Frank, C., 1977, Ztschr. Parasitenk., v. 53 (3), 307-310
Hepatozoon sylvatici transmitted from naturally to experimentally infected *Apodemus sylvaticus* and *A. flavicollis* by *Laelaps agilis*; *L. agilis* transmission of *H. sylvatici* to non-specific host, *Clethrionomys glareolus*; gonads of female mites possibly have stimulating effect on protozoan development; schizonts from bone marrow and liver of *Apodemus flavicollis* differ in morphology

Gonads, Host

- Pousada, J. M. D. C.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (2), 87-98
Schistosoma mansoni-infected mice, effects on growth, development and gonadal function

Gonads, Host

- Seed, J. R.; et al., 1978, Am. Midland Naturalist, v. 100 (1), 126-134
Trypanosoma brucei gambiense-infected wild and laboratory *Microtus montanus* males, organ weights, parasite stress as cause of enlarged spleens and smaller gonads, splenomegaly can be used as survey marker to determine extent of parasitism in field populations, reduced reproductive potential suggests that parasitism plays role in limiting host population density: Jackson Hole, Wyoming

Gonads, Host

- Smith, D. H., 1977, J. Mamm., v. 58 (4), 679-681
Cuterebra larvae in *Peromyscus maniculatus* (exper.), significant reduction in gonad weights and breeding success

Gonads, Host

Tiboldi, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 670-676

Schistosoma mansoni-infected mice, histopathological changes in ovaries in acute and chronic infections, pituitary hypofunction may contribute to pathological transformation of ovarian tissue

Gonads, Host

Tiboldi, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 1026-1030

Schistosoma mansoni-infected mice, histopathological changes in ovaries can be reversed by adequate antischistosomal therapy

Gonads, Host

Tiboldi, T.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 871-872

Schistosoma mansoni, mice, observations on ovarian function during acute infections showed that estrus was present in some infected animals in spite of histopathological changes and decreased levels of progesterone in blood

Gonads, Host

Youssef, A. H., 1976, J. Egypt. Vet. Med. Ass., v. 35 (3), 147-157

Dipetalonema evansi, camels, filarial orchitis and possible significance as prevalent reproductive disease; surgical treatment and use of neosulversan, fcuadin, and neguvon, histopathology of gonads: Egypt

Gonads, Parasite

Crystal, M. M.; and Guillot, F. S., 1978, Ann. Entom. Soc. Am., v. 71 (2), 243-246

Cochliomyia hominivorax, field-collected and laboratory reared females, correlation of changes in flight behavior of aging female with changes in ovarian development

Gonads, Parasite

Frank, C., 1977, Ztschr. Parasitenk., v. 53 (3), 307-310

Hepatozoon sylvatici transmitted from naturally to experimentally infected Apodemus sylvaticus and A. flavicollis by Laelaps agilis; L. agilis transmission of H. sylvatici to non-specific host, Clethrionomys glareolus; gonads of female mites possibly have stimulating effect on protozoan development; schizonts from bone marrow and liver of Apodemus flavicollis differ in morphology

Gonads, Parasite

Hafeezullah, M., 1971, Acta Parasitol. Polon., v. 19 (9-18), 133-139

Helicometra, genus review, variations in testes number

Gonads, Parasite

Kunitskaia, N. T., 1970, Parazitologiya, Leningrad, v. 4 (5), 444-450

fleas, structure of ovaries

Granuloma

Behmer, O. A., 1973, Rev. Hosp. Clin., S. Paulo, v. 28 (4), 212-221

S[chistosoma] mansoni, human, determination of elastase in blood platelets and the role of elastase in granuloma formation in lungs

Granuloma

Bicalho, S. A., 1978, AMB, Rev. Ass. Med. Brasil., v. 23 (1), 31-35

Schistosoma mansoni, humans, intestinal and extra-intestinal granulomatous tumors, differential diagnostic problems, clinical aspects: Brazil

Granuloma

Boros, D. L., 1978, Progr. Allergy, v. 24, 183-267

granulomatous inflammations, extensive review including information on the schistosome egg granuloma

Granuloma

Byram, J. E.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 274-285

Schistosoma mansoni in T-cell deprived vs. normal mice, histopathology, prevention of liver cell damage surrounding egg foci by passive transfer of serum from chronically infected but not from uninfected mice

Granuloma

Byram, J. E.; et al., 1979, Am. J. Path. (441), v. 94 (2), 201-222

Schistosoma mansoni, S. japonicum, mice, potentiation of schistosome granuloma formation by lentinan (a T-cell adjuvant)

Granuloma

Carpenter, J. W.; et al., 1979, J. Am. Vet. Med. Ass., v. 175 (9), 948-951

Protozoa [sp.] in Grus canadensis, disseminated granulomas, histopathology, electron microscopy: Patuxent Wildlife Research Center

Granuloma

Chandrasoma, P. T.; de Silva, S.; and Yoganthan, M., 1978, Postgrad. Med. J., London (628), v. 54, 103-107

Ascaris lumbricoides, child, migration of gravid female worm from intestinal lumen into peritoneal cavity, resulting granuloma of anterior abdominal wall and miliary granulomata in peritoneal cavity, case report

Granuloma

Chensue, S. W.; and Boros, D. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 291-299

Schistosoma mansoni, mice, population dynamics of T and B lymphocytes in lymphoid organs, peripheral blood, and hepatic granulomas, appearance of B cells within granulomas may indicate that they play role in modulating granulomatous hypersensitivity

Granuloma

Chensue, S. W.; and Boros, D. L., 1979, J. Immunol., v. 123 (3), 1409-1414

Schistosoma mansoni, characterization of T lymphocytes involved in adoptive suppression of granuloma formation in infected mice

Granuloma

Colley, D. G., 1976, J. Exper. Med., v. 143 (3), 696-700

Schistosoma mansoni, passive transfers of lymphoid cells from chronically infected mice to syngeneic mice in early stages of infection suppressed granuloma formation, passive transfers of serum had no such effect

Granuloma

Colley, D. G.; Lewis, F. A.; and Todd, C. W., 1979, Cellular Immunol., v. 46 (1), 192-200

Schistosoma mansoni, mice, adoptive suppression of granuloma formation by T lymphocytes and by lymphoid cells sensitive to cyclophosphamide

Granuloma

- Dingemans, K. P.; and Elias, E. A., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 231-242
Schistosoma intercalatum in Syrian hamsters, ultrastructural study of pathologic lesions (mainly mature egg granulomas) in liver;
Schistosoma pigment compared with malaria pigment induced by infecting hamster with *Plasmodium berghei*

Granuloma

- Dominguez Barranco, A., 1973, Rev. Cir. Hosp. Juarez, Mexico (187-188), v. 44, 1972-1973, 65-72
 human amoebiasis, acute fulminating colitis, amebomas, review of cases with emphasis on diagnosis, therapy, complications, surgical procedures

Granuloma

- Edungbola, L. D.; and Schiller, E. L., 1979, J. Parasitol., v. 65 (2), 253-261
Schistosoma mansoni, mice, rats, hamsters, comparative histopathology of hepatic and pulmonary granulomata experimentally induced with eggs

Granuloma

- Epstein, W. L.; et al., 1979, J. Path., v. 127 (4), 207-215
Schistosoma mansoni, normal and athymic mice, granulomatous inflammation, ultrastructural study

Granuloma

- Fauve, R. M., 1978, Pharmacol. Immunoreg., 319-334
 mice, induction of inflammatory reactions with non-biodegradable, non-diffusible, and non-antigenic substances at site distant from site of pathogen proliferation or persistence, increased resistance to various pathogens including *Schistosoma mansoni*, fraction extracted from granuloma is responsible at least in part for this increased resistance

Granuloma

- Ferluga, J.; Doenhoff, M. J.; and Allison, A. C., 1979, Parasite Immunol., v. 1 (4), 289-294
Schistosoma mansoni, mice in granulomatous stage of infection, increased hepatotoxicity of bacterial lipopolysaccharide

Granuloma

- Hillyer, G. V.; and Cangiano, J. L., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 331-333
Schistosoma mansoni, granulomatous response to parasite eggs in patient on maintenance immunosuppression after renal transplant, case report

Granuloma

- Izaki, S.; Fukuyama, K.; and Epstein, W. L., 1979, J. Reticuloendothel. Soc., v. 26 (5), 507-514
Schistosoma mansoni, mice, modulation of anti-thrombin and anti-fibrinolytic activities in tissue during development of granulomas

Granuloma

- Jofre Gutierrez, J. A., 1976, Rev. Espan. Enferm. Apar. Digest., v. 47 (2), 249-254
 [Entamoeba] histolytica, human, with resulting rectal amoeboma, medical management, case report: Mendoza, Rep. Argentina

Granuloma

- Joky, A.; et al., 1978, Experientia, v. 34 (4), 547-549
 injection of polyvinylchloride particles in caecal vein of mice induces foreign-body portal granuloma reaction in liver, possible use as model for schistosome egg-induced liver pathology; plastic casts of portal systems of normal livers, *Schistosoma mansoni*-infected livers and PVC-implanted livers compared

Granuloma

- Jones, L. G.; and Bogitsh, B. J., 1979, Ztschr. Parasitenk., v. 60 (2), 185-192
Schistosoma mansoni-infected mice, changes in hepatocytes adjacent to hepatic granulomas, light and electron microscopy

Granuloma

- Kassis, A. I.; Warren, K. S.; and Mahmoud, A. A. F., 1978, Cellular Immunol., v. 38 (2), 310-318
Schistosoma haematobium, mice, granuloma formation around eggs is largely cell-mediated immunologic reaction, is dependent on dose and route of sensitization, is relatively specific among the 3 schistosome species, and can be transferred with cells but not with serum from previously egg-sensitized mice; furthermore, egg-sensitized animals demonstrate immediate and delayed skin reactivity on challenge with egg antigens

Granuloma

- Kayes, S. G.; and Oaks, J. A., 1978, Am. J. Path. (438), v. 93 (2), 277-294
Toxocara canis, mice, evolution of muscle-associated granuloma, histopathology, light and electron microscopy

Granuloma

- Kloetzel, K., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (1), 51-56
Schistosoma mansoni, mice, venous circulation in bowel wall, tissue reactions to deposition of ova and granuloma formation

Granuloma

- Koller, A. B., 1975, South African Med. J., v. 49 (30), 1228-1232
 bilharzial and amoebic granulomatous lesions of the cervix uteri, incidence in South African Blacks, clinical presentation, macroscopic and microscopic features: Baragwanath Hospital

Granuloma

- Leventhal, R.; et al., 1978, Clin. and Exper. Immunol., v. 32 (1), 69-76
Ascaris suum, role of complement in histopathology of primary and challenge infections in guinea pigs, enhanced pulmonary eosinophilic infiltration and eosinophilic granuloma formation in absence of complement (C3 to C9)

Granuloma

- Lima, J. P. R., 1969, Rev. Inst. Med. Trop. S. Paulo, v. 11 (4), 290-293
 schistosomiasis mansoni, human, granulomatous myocarditis, necropsy study of ectopic lesions

Granuloma

- Mahmoud, A. A. F., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 286-290
Schistosoma mansoni, effect of mutation diabetes (marked immunosuppression) on host-parasite relationship in mice, decreased granulomatous response

Granuloma

Michael, A. I.; Awadalla, H. N.; and Farag, H. F., 1979, Tropenmed. u. Parasitol., v. 30 (1), 62-64

Schistosoma haematobium-infected mice challenged with S. mansoni, study of granuloma development suggests presence of cross immunization

Granuloma

Migaki, G.; et al., 1978, Vet. Path., v. 15 (5), 679-681

trichomonal granuloma of pelvic cavity in an apparently normal pregnant Macaca mulatta, infection apparently occurred during laparotomy during an experimental study

Granuloma

Pelley, R. P.; and Warren, K. S., 1978, J. Invest. Dermat., v. 71 (1), 49-55
schistosomiasis, review of current evidence that both induction and amelioration of hepato-splenic disease are immunologically mediated

Granuloma

Prunescu, C.; Prunescu, P.; and Chiriac, E., 1978, Trav. Mus. Hist. Nat. "Gr. Antipa", Bucuresti, v. 19, 71-72

Aplectana acuminata, tissue response in parasitized Bufo viridis, inflammatory granuloma as mechanical barrier to cellular damage: Bucharest

Granuloma

Scaffidi, V., 1973, Riforma Med., v. 87 (19), 743-760

Entamoeba [histolytica], human, amoeboma and ulcerative amoebic colitis, clinical variables, diagnosis, therapeutics

Granuloma

Sinha, B. K., 1974, U. P. Vet. J., v. 2 (4), 155-157

parasitic granuloma and abscess, bovine bladder, cross sections of nematodes and/or ova; Setaria sp. (peritoneal cavity): Municipal Slaughter House, Bareilly

Granuloma

Sirikulchayanonta, V.; and Chongchitnant, N., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 42-44

Gnathostoma spinigerum, man, possible etiologic agent of eosinophilic granuloma of gastrointestinal tract, case report: Thailand

Granuloma

Sousa, O. E.; and Briceno, C. E., 1976, Rev. Med. Panama, v. 1 (2), 81-86

Enterobius vermicularis, human, ovarian parasitic granuloma thought to result from the erratic migration of an adult female worm, case report: Panama

Granuloma

Thompson, H. T.; Pettigrew, R.; and Johnson, E. A., 1979, Thorax, v. 34 (3), 401-403
Schistosoma mansoni, solitary pulmonary bilharzioma, case report: London, formerly from Africa

Granuloma

Warren, K. S.; Grove, D. I.; and Pelley, R. P., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 271-275

Schistosoma japonicum egg granuloma, cellular composition, size, immunologic concomitants, differences from S. mansoni

Granuloma

Werth, J. A.; Izzat, N. N.; and McClarin, W. M., 1971, Texas Med., v. 67, 86-88

Dirofilaria tenuis, 32-year-old woman, granulomatous subcutaneous nodule on forearm contained worm, first human case occurring in Texas

Granuloma

Wyler, D. J.; Wahl, S. M.; and Wahl, L. M., 1978, Science (4366), v. 202, 438-440

Schistosoma mansoni, egg granulomas (obtained from livers of infected mice) secrete fibroblast stimulating factor in vitro, this suggests that hepatic granulomas may play role in development of hepatic fibrosis in schistosomiasis

Granuloma

Lavala Velazquez, J.; et al., 1974, Rev. Invest. Clin., v. 26 (4), 389-394

Angiostrongylus costarricensis, children, painful abdominal granulomas, first reported cases in Mexico

Great Britain

Chubb, J. C., 1970, Symposia Brit. Soc. Parasitol., v. 8, 119-144

parasite fauna of British freshwater fish, relationship between parasite, host, and environment, lake and flowing water species of parasites compared

Great Britain, England

Chubb, J. C., 1977, A review of parasite fauna of the fishes of the River Dee System, 107 pp.
parasites of fishes, literature review, parasite and host lists, notes on parasite biology and fishery management: River Dee System

Great Britain, England

Pegg, E. J., 1978, J. Helminth., v. 52 (1), 68-70

gastro-intestinal nematodes of British police dogs
(Toxocara canis; Toxascaris leonina; Trichuris vulpis; Uncinaria stenocephala)

Great Britain, Wales

Cowper, S. G., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 455-459

helminth parasites of dogs and cats and toxoplasmosis antibodies in cats: Swansea, South Wales
(dogs: Toxocara canis; Toxascaris leonina; Uncinaria stenocephala; Dipylidium caninum; Linguatula serrata
cats: Toxocara cati; Taenia taeniaeformis; T. pisiformis; Dipylidium caninum; Toxoplasma gondii)

Great Britain, Wales

Edwards, G. T.; Hackett, F.; and Herbert, I. V., 1979, Brit. Vet. J., v. 135 (5), 426-432

cestode prevalence in farm dogs, age of host: Snowdonia, U. K.
(Taenia hydatigena; T. pisiformis; T. multiceps; T. ovis; Dipylidium caninum; Echinococcus granulosus; Toxocara canis; Toxascaris leonina)

Grooming. See Behavior.

Growth. [See also Culture; Development; Reproduction]

Growth, Host

- Alikhanov, Sh. G., 1973, *Parazitologiya*, Leningrad, v. 7 (5), 389-391
Thelohania opacita, detrimental effect on growth and development of *Aedes caspius caspius* from natural populations

Growth, Host

- Armstrong, E., 1978, *J. Invert. Path.*, v. 31 (3), 303-306
Nosema whitei-infected *Tribolium castaneum*, growth and mortality when fed vitamin B-complete vs. -deficient diets

Growth, Host

- Armstrong, E., 1979, *Ztschr. Parasitenk.*, v. 59 (1), 27-29
Nosema whitei-infected *Tribolium castaneum*, relationship between body weight gains and food consumption

Growth, Host

- Augustine, P. C.; and Thomas, O. P., 1979, *Avian Dis.*, v. 23 (4), 854-862
Eimeria meleagridis, turkeys (exper.), reduced feed consumption and weight gains, blood and organ changes

Growth, Host

- Baxter, J. M.; and Jones, A. M., 1978, *Marine Biol.*, v. 46 (4), 305-313
Minchinia chitonis-infected mollusc, *Lepidochitona cinereus*, host growth and population structure, infection caused enhanced growth and deviation from normal growth curve: Easthaven, Scotland

Growth, Host

- Borgsteede, F. H. M.; and Hendriks, J., 1979, *Parasitology*, v. 78 (3), 331-342
Cooperia oncophora, calves (exper.), single infections with 2 graded doses of larvae, weight gains, egg output, haematology, worm counts and host reaction against worm burden, worm measurements, distribution of worms in small intestine

Growth, Host

- Cargill, C. F.; and Dobson, K. J., 1979, *Vet. Rec.*, v. 104 (2), 33-36
Sarcoptes scabiei var. *suis*, growing pigs housed and fed under optimal and sub-optimal conditions of management, effect of experimental infections on growth rates and feed conversion efficiencies, concluded that loss of productivity is closely related to intensity of hypersensitivity reaction

Growth, Host

- Chi, C. W.; and Isseroff, H., 1979, *J. Nutrition*, Bethesda, v. 109 (7), 1299-1306
Fasciola hepatica, rats, growth studies, nitrogen balance studies, disposition of excessive proline

Growth, Host

- Coop, R. L.; Sykes, A. R.; and Angus, K. W., 1979, *Vet. Parasitol.*, v. 5 (2-3), 261-269
Cooperia oncophora, calves given daily doses of larvae, faecal egg count, worm burden, liveweight gain and food intake, serum constituents, bone chemical analyses, intestinal pathology

Growth, Host

- Costa, J. O.; et al., 1977, *Arq. Escola Vet. Univ. Fed. Minas Gerais*, v. 29 (2), 171-178
Strongylidae, calves, chlorhydrate of tetramisole, weight gain in treated and control groups not influenced by *Strongylidae* infection, low worm burden in both groups

Growth, Host

- Dargie, J. D.; Berry, C. I.; and Parkins, J. J., 1979, *Research Vet. Sc.*, v. 26 (3), 289-295
Fasciola hepatica, sheep (exper.) given hay or hay plus pelleted supplement, feed intake and digestibility, body weight and nitrogen balance

Growth, Host

- Donald, A. D.; et al., 1979, *Vet. Parasitol.*, v. 5 (2-3), 205-222
gastrointestinal nematodes with major emphasis on *Ostertagia ostertagi*, beef cattle, levels of infection and effects on live-weight gain, effects of pasture type (*phalaris* vs. *lucerne*) and stocking rate, effects of anthelmintic treatment, 4-year experiment: Canberra, Australia

Growth, Host

- Ducos de Lahitte, J.; Dorchies, P.; and Franc, M., 1978, *Prat. Vet. Equine*, v. 10 (4), 157-159
gastro-intestinal strongylosis, foals, weight gains, effect of treatment

Growth, Host

- Dykstra, D. D.; and Reid, W. M., 1978, *Poultry Science*, v. 57 (1), 85-89
Eimeria tenella in conventional, bacteria-free, and monofloral (*Escherichia coli* and *Bacteroides* sp.) chicks (exper.), comparison of cecal lesions, weight gain, clinical signs, and mortality

Growth, Host

- Fayer, R.; and Lynch, G. P., 1979, *Parasitology*, v. 79 (3), 325-336
Sarcocystis cruzi-infected calves (exper.), pathophysiological changes in urine and blood, several specific effects beyond those induced by nutritional stress

Growth, Host

- Gujral, S.; and Chaudhry, A., 1977, *Indian J. Nutrition and Diet.*, v. 14 (11), 341-344
human parasites, necessity of fecal examination and deworming for maximum effect of supplementary feeding program on growth of pre-school children

Growth, Host

- Hale, O. M.; and Stewart, T. B., 1979, *J. Animal Sc.*, v. 49 (4), 1000-1005
Trichuris suis, pigs (exper.), effects of infection on weight gains, digestion and absorption of nutrients, and nitrogen balance

Growth, Host

- Hawkins, C. D.; and Morris, R. S., 1978, *Vet. Parasitol.*, v. 4 (4), 341-351
Fasciola hepatica, sheep (exper.), degree of productivity depression assessed by body-weight change, midside patch wool growth, fleece weights, and feed digestibility

Growth, Host

Hrs-Brenko, M.; and Bozic, E., 1967, Proc. and Tech. Papers, Gen. Fish. Council Mediterranean (8), 179-183

Mytilicola intestinalis, influence on *Mytilus galloprovincialis* noted only in comparisons of infected and uninfected mussels from same area, decreased meat weight: localities on east Adriatic

Growth, Host

Hubert, J.; Kerboeuf, D.; and Gruner, L., 1978, Bull. G.T.V. (6), 1-16
gastrointestinal nematodes, ovine, epidemiology, effect on host growth and plasma pepsinogen levels: Limousin

Growth, Host

Ito, S.; et al., 1977, Nippon Zyuishi-Kai Zassi (J. Japan Vet. Med. Ass.), v. 30 (5), 257-260
Dictyocaulus viviparus, calves (exper.), long-term observations, role of carrier calves in field; infected calves showed lower body weight gain than uninfected calves

Growth, Host

Jørgensen, R. J.; et al., 1978, Vet. Parasitol., v. 4 (1), 55-68
Ostertagia ostertagi, calves from previous field experiment that had been subjected to various combinations of pasture moving and anthelmintic treatment, infection parameters and body weight gains following housing

Growth, Host

Lewert, R. M.; Yogore, M. G., jr.; and Blas, B. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 1010-1025
Schistosoma japonicum, human, prevalence and intensity, morbidity (hepato- and/or splenomegaly, height and weight, symptomatology), host age and sex: Barrio San Antonio, Basey, Samar, The Philippines

Growth, Host

Long, P. L.; and Millard, B. J., 1978, Parasitology, v. 76 (1), 1-9
Eimeria grenieri in *Numida meleagris* (intestine, caeca) (nat. and exper.), life cycle, reproduction rate, pathogenicity (severe depression of body weight gain), immunity to reinfection, treatment with sulphaquinoxaline in drinking water and robenidine in food: Britain

Growth, Host

Lowe-Jinde, L., 1979, J. Fish Biol., v. 14 (3), 297-302
Cryptobia salmositica in *Salmo gairdneri* (exper.), plasma glucose and proteins and haematocrit levels during course of infection, changes produced in host metabolism will undoubtedly affect host growth and population size

Growth, Host

Meek, A. H.; and Morris, R. S., 1979, Austral. Vet. J., v. 55 (8), 365-369
Fasciola hepatica, sheep grazing on irrigated vs. non-irrigated pastures, temporal distribution of acquisition of infection, influence of infection on productivity, outline of suitable treatment regimen: northern Victoria

Growth, Host

Mohamed, A. M., 1977, Egypt. J. Bilharz., v. 4 (2), 187-194
Trichobilharzia ocellata-infected *Lymnaea stagnalis*, increased growth rate, reduced tissue glycogen, shifts toward anaerobiosis

Growth, Host

Mohandas, A., 1973, Proc. National Acad. Sc., India, Sect. B, v. 43 (4), 273-277
Cercaria spp. in *Indoplanorbis exustus* and *Lymnaea luteola* f. *typica* snails, abnormal host growth, pathology of digestive gland and gonads, intra-sporocyst and intra-redial encystment of cercariae in starved snails or in moribund snails reared in polluted water containing their metabolic waste and excreta

Growth, Host

Moser, M.; and Taylor, S., 1978, Canad. J. Zool., v. 56 (11), 2372-2376
Cardiodectes medusaeus on *Stenobrachius leucopsarus*, prevalence in different collection sites and seasons, effects on host (pathology, mortality, parasitic castration, promoting somatic growth); hyperparasitism of copepods by *Hydrichthys* sp.: off Los Angeles; off Santa Barbara; off San Diego

Growth, Host

Munday, B. L., 1979, Vet. Parasitol., v. 5 (2-3), 129-135
Sarcocystis ovicanis, deleterious effect on growth rate and haematocrit in lambs, presence of antibodies (presumably colostral) against *Sarcocystis* did not appear to provide significant protection

Growth, Host

Natarajan, P.; and Nair, N. B., 1977, J. Animal Morph. and Physiol., v. 24 (2), 229-243
Lernaeenicus hemirhamphi on *Hemirhamphus xanthopterus* and *H. far*, effects on length, weight, gonad development, and blood composition

Growth, Host

Nesheim, M. C.; et al., 1978, Proc. Roy. Soc. London, s. B, Biol. Sc. (1148), v. 202, 399-408
Moniliformis dubius-infected vs. uninfected rats fed isoenergetic diets containing varying amounts of starch, host and parasite growth

Growth, Host

Neville, W. E., jr.; Stewart, T. B.; and McCormick, W. C., 1977, J. Animal Sc., v. 44 (6), 1119-1126
nematodes, early-weaned and suckling calves, difference in egg counts and weight gain under different rearing regimes

Growth, Host

Oakley, G. A.; Owen, B.; and Knapp, N. H. H., 1979, Vet. Rec., v. 104 (22), 503-507
Fasciola hepatica, dairy heifers (exper.), production and performance (growth, gestation period, conception rate, calf birth-weights, milk production)

Growth, Host

Oikawa, H.; and Kawaguchi, H., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (3), 99-106

Eimeria acervulina, *E. tenella*, chickens, effect of single vs. repeated vs. successive infections of mixed species on manifestation of symptoms, food intake and body weight gain, and oocyst production

Growth, Host

Oikawa, H.; and Kawaguchi, H., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (5), 276-283

Eimeria maxima, *E. necatrix*, chickens, effect of single vs. repeated vs. successive infections on manifestation of symptoms, food intake and body weight gain, and oocyst production

Growth, Host

Omole, T. A.; and Onawunmi, O. A., 1979, Ann. Parasitol., v. 54 (5), 495-506

Trypanosoma brucei-infected immunized and non-immunized rabbits maintained on diets with different levels of copper, growth and carcass performance, blood constituents

Growth, Host

Phares, C. K.; and Carroll, R. M., 1978, J. Parasitol., v. 64 (3), 401-405

effects of bovine pituitary growth hormone vs. *Spirometra mansonoides* plerocercoid growth factor on body growth and lipid composition in diabetic-hypophysectomized rats

Growth, Host

Pousada, J. M. D. C.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (2), 87-98

Schistosoma mansoni-infected mice, effects on growth, development and gonadal function

Growth, Host

Ragan, J. G.; and Corkern, C. C., 1978, Prof. Papers Ser. (Biol.), Nicholls State Univ. (1), 10 pp.

Prochristianella penaei in *Penaeus aztecus*, incidence and intensity, sex, weight, and length of host, potential 'living tag' for defining stocks: West Bay, Galveston, Texas

Growth, Host

Reid, J. F. S.; and Armour, J., 1978, Vet. Rec., v. 102 (1), 4-7

helminths, sheep, economic effects (death, poor growth rate, poor food utilisation, poor fleece quality), outline of more efficient prophylactic programmes than those currently adopted by sheep farmers: United Kingdom

Growth, Host

Riffkin, G. G.; and Dobson, C., 1979, Vet. Parasitol., v. 5 (4), 365-378

Haemonchus contortus, in vitro response of sheep lymphocytes to parasite antigens varied between animals but was heritable and positively correlated with resistance to infection, sheep which were most susceptible had lowest lymphocyte responses but highest rate weight gain during infection

Growth, Host

Romestand, B., 1979, Ann. Parasitol., v. 54 (4), 423-448

Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts

Growth, Host

Romestand, B.; and Trilles, J. P., 1979, Ztschr. Parasitenk., v. 59 (2), 195-202
cymothoid isopods, influence on host growth and weight-size ratios

Growth, Host

Rondelaud, D.; and Barthe, D., 1978, Compt. Rend. Soc. Biol., Paris, v. 172 (6), 1194-1200

Fasciola hepatica, development of rediae in *Limnaea* spp., dependent upon host growth

Growth, Host

Samuel, D., 1978, Indian J. Fish., v. 23 (1-2), 1976, 153-159

Bucephalopsis haimeanus cercariae in *Crassostrea madrasensis* (gonads), parasite morphology, effect on host (sterility; gigantism in 2 cases, loss of flesh weight in 1 case): Karapad Creek, Tuticorin

Growth, Host

Shigin, A. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 227-231

Diplostomum paraspithaceum, *D. spathaceum*, lowering rate of growth of [*Ctenopharyngodon idella*], possible factor in fish culture

Growth, Host

Singhvi, A.; and Johnson, S., 1978, Ztschr. Ang. Zool., v. 65 (4), 449-459

nematodes, *Rattus rattus*, incidence and intensity of infection in relation to weight, sex, age of host, and month of year: Jodhpur

Growth, Host

Singhvi, A.; and Johnson, S., 1978, Zool. Anz., Jena, v. 200 (5-6), 417-425

Rictularia jodhpurensis in male and female *Rattus rattus* of 3 different age categories, incidence, intensity, seasonal variation, parasite sex ratio, parasite length in relation to host weight and worm burden: Jodhpur, India

Growth, Host

Stacey, B. R.; et al., 1978, J. Econom. Entom., v. 71 (6), 967-970

Amblyomma maculatum, Hereford and Brahman steers, drylot conditions, weight gains and blood parameters, comparison between breeds and infested and uninfested steers

Growth, Host

Steelman, S. L.; et al., 1971, Recent Progr. Hormone Research, v. 27, 97-120

Spirometra mansonoides, comparative study of sparganum growth factor (SGF) and growth hormone: growth-promoting properties, metabolic actions on bone and protein synthesis, effects on carbohydrate and lipid metabolism, source and physicochemical properties of SGF, development of resistance to SGF (result of neutralizing antibodies)

Growth, Host

Stewart, T. B.; and Neville, W. E., jr., 1977, J. Animal Sc., v. 44 (1), 124-130

nematodes, early-weaned calves on drylot vs. suckling calves on pasture, differences in egg counts and weight gains: south Georgia

Growth, Host

- Sucupira, M. S.; and Pupo, A. de A., 1976, AMB, Rev. Ass. Med. Brasil., v. 22 (5), 154-161
Schistosoma mansoni, teenagers with delayed puberty and short stature, study showed no relationship between growth disorders and parasitic infections

Growth, Host

- Sweeting, R. A., 1976, J. Fish Biol., v. 9 (6), 515-522
Ligula intestinalis, effect on *Rutilus rutilus* population in gravel pit, fall in number of parasitized roach due to predation by other fish, parasitized roach failed to become sexually mature but their actual growth rate was not markedly reduced, plerocercoids grew more rapidly during summer, roach less than 9 months of age should not be introduced into confined waters: southern England

Growth, Host

- Sykes, A. R., 1978, Vet. Rec., v. 102 (2), 32-34
 subclinical parasitism in sheep, effects of parasites localized in abomasum, small intestine, and liver on bodyweight gain, efficiency of food utilization, and serum constituents, diagnostic aids

Growth, Host

- Sykes, A. R.; Coop, R. L.; and Angus, K. W., 1979, Research Vet. Sc., v. 26 (3), 372-377
Trichostrongylus vitrinus, sheep (exper.), chronic infection, food intake and body weight gains, food digestibility, body composition, bone chemistry and histology, serum constituents

Growth, Host

- Symons, L. E. A.; and Jones, W. O., 1978, Exper. Parasitol., v. 44 (1), 7-13
Trichostrongylus colubriformis, guinea pigs with light to heavy infections, relationships between fall of food consumption and changes of body mass and skeletal muscle and liver protein synthesis

Growth, Host

- Willet, W. C.; Kilama, W. L.; and Kihamia, C. M., 1979, Am. J. Pub. Health, v. 69 (10), 987-991
Ascaris-infected children, levamisole, effect on growth rate; results consistent with a causal association between ascariasis and malnutrition: Ubiri village near Lushoto, Tanzania

Growth, Host

- Williams, R. E.; Hair, J. A.; and McNew, R. W., 1978, J. Parasitol., v. 64 (2), 336-342
Amblyomma maculatum on pastured Hereford steers, effects of tick infestation on blood composition and weight gain

Growth, Host

- Wilson, A. J.; and Trueman, K. F., 1978, Austral. Vet. J., v. 54 (3), 121-124
Anaplasma marginale, *Bos indicus* cross steers (exper.), effects of reduced energy intake on humoral antibody response, parasitaemia, body weight, packed cell volumes, and plasma protein values

Growth, Host

- Yazwinski, T. A.; and Brown, A. H., 1979, Vet. Med. and Small Animal Clin., v. 74 (8), 1156-1158, 1160
 intestinal parasites, bulls, levels of infection, variation of growth performance factors in relation to levels of eggs per gram of feces, regression analysis: Arkansas

Growth, Parasite

- Aagaard, K., 1978, Fauna, Oslo, v. 31 (1), 23-28
Argulus coregoni, new method for catching fish louse, trapping free-living stage, growth patterns: Lake Malsjoen, Sor-Trondelag

Growth, Parasite

- Ahmed, F. E.; and Mohammed, A. H. H., 1978, J. Protozool., v. 25 (2), 174-177
Haemoproteus columbae in pigeons, growth and development of gametocytes, effect on host cell, multiple infection of erythrocytes, sex ratio

Growth, Parasite

- de Almeida, D. F.; and de Souza, W., 1978, J. Parasitol., v. 64 (1), 17-22
Herpetomonas samuelpessoai in basic medium or in complex media obtained through addition of various concentrations of KCl, NaCl, or glycerol, growth curves, changes in cell volume as function of osmolarity of medium, corresponding morphological changes

Growth, Parasite

- Andersen, K., 1978, Parasitology, v. 77 (1), 111-120
Diphyllbothrium latum, growth and development in *Mesocricetus auratus* and *Alopex lagopus*, comparison with *D. dendriticum* and *D. ditremum*, implications of observed differences between these three species to classification of diphyllbothriid cestodes

Growth, Parasite

- Andersen, K., 1979, J. Helminth., v. 53 (1), 39-40
Diphyllbothrium dendriticum, abnormal growth pattern in *Salmo gairdneri* (exper.)

Growth, Parasite

- Arai, H. P.; and Arthur, J. R., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 377-383
Cucullanellus kanabus, growth patterns (allometry, isometry, curvilinear), implications for use of body proportions as diagnostic features when identifying and/or naming nematode species

Growth, Parasite

- Arme, C.; and Walkey, M., 1970, Symposia Brit. Soc. Parasitol., v. 8, 79-101
 physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)

Growth, Parasite

- Bafort, J. M., 1971, Ann. Soc. Belges Med. Trop. Parasitol., v. 51 (1), 5-203
Plasmodium v. vinckei; P. b. berghei, biology of rodent malaria, monograph covering life cycle in vertebrate and invertebrate hosts, light and electron microscopic study of morphology

Growth, Parasite

- Burt, D. R. R., 1979, Zool. J. Linn. Soc., London, v. 65 (1), 71-82
Eurycestus latissimus sp. nov., reproductive system development sequence, growth analysis

Growth, Parasite

- Chen, S. N.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 473-486
Brugia pahangi, in vitro cultivation in variety of culture systems, effect of temperature and pH on survival of infective stage larvae in vitro, growth and development of larvae in vitro and in vivo, effect of CO₂ on infective larvae in vitro, growth and development of early mammalian stages in vitro, electron microscope observations

Growth, Parasite

- Chiari, E., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (2), 81-87
Trypanosoma cruzi, strains Y and MR cultured for different periods of time, comparison of growth curves and differentiation (epimastigotes to metacyclic trypomastigotes) rates

Growth, Parasite

- Christie, P. R.; Wakelin, D.; and Wilson, M. M., 1979, Parasitology, v. 78 (3), 323-330
Trichinella spiralis, *Hymenolepis diminuta*, rats, concurrent infections, cestode growth was stunted (dependent on relative timing of the 2 infections and on number of *Trichinella* administered) probably due to non-specific inflammatory component of host response to *Trichinella*, no loss of cestode nor destrobilation

Growth, Parasite

- Crane, M. St. J.; and Dvorak, J. A., 1979, J. Protozool., v. 26 (4), 599-604
Trypanosoma cruzi, interaction with vertebrate cells in vitro, DNA synthesis and growth of intracellular amastigotes, relationship to host cell DNA synthesis and growth

Growth, Parasite

- Davydov, O. N., 1978, Gidrobiol. Zhurnal, v. 14 (4), 70-77
Bothriocephalus gowkongensis in cyprinid fishes, growth, development, and fertility in relation to temperature, host age and diet, and intensity of invasion

Growth, Parasite

- Dvorak, J. A.; and Howe, C. L., 1979, J. Protozool., v. 26 (1), 114-117
Toxoplasma gondii-vertebrate cell interactions, kinetic study of reproductive phase utilizing controlled-environment culture system

Growth, Parasite

- Fischthal, J. H., 1978, J. Helminth., v. 52 (1), 29-39
Apocreadium mexicanum, *Pseudocreadium lamelliforme*, *Paracryptogonimus americanus*, allometric growth of body proportions and organs, taxonomic implications

Growth, Parasite

- Fischthal, J. H., 1978, Zool. Scripta, v. 7 (1), 13-18
 digenetic trematodes of marine fishes, allometric growth, diagnostic usefulness in taxonomic studies: off coast of Belize

Growth, Parasite

- Fischthal, J. H., 1979, J. Helminth., v. 53 (4), 357-362
Asymphyllodora fishelsoni sp. n., allometric growth

Growth, Parasite

- Geraert, E., 1979, Nematologica, v. 25 (1), 1-21
 free-living, plant parasitic, and animal parasitic nematodes, interdependence of body length, body width, and oesophagus length during post-embryonic growth

Growth, Parasite

- Herman, S. M.; and Bacha, W. J., jr., 1978, J. Parasitol., v. 64 (5), 827-830
Himasthla quissetensis, successful infection of domestic chicks per cloaca using cercariae, growth, development, and site location (preference for ileum where worms grew and developed at rate comparable to those raised in gull, worms from bursa of Fabricius showed relatively little growth and exhibited gonadal atrophy in some cases)

Growth, Parasite

- Ho, B. C.; et al., 1977, J. Med. Entom., v. 13 (4-5), 531-535
Breinlia booliati, relative susceptibility of 8 insectary-reared mosquito species, larval growth rate and development, role of these potential vectors in natural transmission

Growth, Parasite

- Hopkins, C. A.; and Allen, L. M., 1979, Parasitology, v. 79 (3), 401-409
Hymenolepis diminuta in rats, effect of removing strobila on position of scolex in host intestine, effect on worm growth of operating on host

Growth, Parasite

- Kessler, R. H.; et al., 1979, Am. J. Vet. Research, v. 40 (12), 1767-1773
Anaplasma marginale, in vitro cultivation in bovine erythrocytes, growth pattern and morphology

Growth, Parasite

- Kessler, R. H.; and Ristic, M., 1979, Am. J. Vet. Research, v. 40 (12), 1774-1776
Anaplasma marginale, in vitro cultivation in normal ovine and bovine erythrocytes, transmission from infected ovine to normal bovine cells demonstrated, growth patterns

Growth, Parasite

- Ko, R. C., 1979, J. Helminth, v. 53 (2), 121-126
Angiostrongylus cantonensis, intracranial transplantation into rats from mice and into rabbits from rats, subsequent growth and development

- Growth, Parasite
Lugo-Hernandez, A., 1973, Rev. Brasil. Biol., v. 33 (4), 561-573
Trypanosoma cruzi, comparison of growth and development in 199 medium with inactivated calf serum or with chicken embryo cells at 37° and 33° C
- Growth, Parasite
Margolis, L.; and Boyce, N. P., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 893-907
Tubulovesicula lindbergi and Lecithaster gibbosus in captive Oncorhynchus, parasite life span, maturation, and growth
- Growth, Parasite
Minter-Goedbloed, E., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 22-30
Trypanosoma cruzi, primary isolation by hemoculture of parasites from naturally infected Didelphis azarae, mice (exper.) and acute and chronic infections in humans; low proportion of successful isolations from human chronic infections due probably to lower parasitemia; hemoculture from chronic patients also differed markedly from other hosts in very slow growth-rate obtained which was probably due to continuing activities of humoral and cellular components in blood inoculum
- Growth, Parasite
Nesheim, M. C.; et al., 1978, Proc. Roy. Soc. London, s. B, Biol. Sc. (1148), v. 202, 399-408
Moniliformis dubius-infected vs. uninfected rats fed isoenergetic diets containing varying amounts of starch, host and parasite growth
- Growth, Parasite
Neuhaus, W., 1978, Ztschr. Parasitenk., v. 55 (3), 209-221
Dicrocoelium dendriticum, Pleurogenoides medians, Fasciola hepatica, length of uterus as correlated with body size at different stages of development, mathematical analysis of growth
- Growth, Parasite
Novak, M., 1978, Experientia, v. 34 (9), 1149
Taenia crassiceps, heat- and cold-stressed mice harbored significantly less cysticerci than controls, effect more pronounced in heat-stressed than in cold-stressed animals and more in males than in females, results show that environmental temperature affects growth of cysticerci in mice
- Growth, Parasite
Orr, T. S. C.; and Hopkins, C. A., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 741-752
Schistocephalus solidus, procedures for maintenance in laboratory, growth of plerocercoids, relationship between number of proglottids and weight (age) of plerocercoid
- Growth, Parasite
Prokopic, J., 1975, Acta Parasitol. Polon., v. 23 (26-40), 339-345
Hymenolepis erinacei growth and population dynamics in Erinaceus europaeus (exper.)
- Growth, Parasite
Radlett, A. J., 1979, Parasitology, v. 79 (3), 411-416
Notocotylus attenuatus, in domestic fowl, in vivo excystation of metacercariae, intra-caecal growth and movement of worms, attachment of juvenile worms to host's caecum
- Growth, Parasite
Schnur, L. F.; et al., 1979, FEBS Letters, v. 106 (1), 202-206
Leishmania tropica minor, L. aethiopica, polyamine synthesis and levels during growth and replication
- Growth, Parasite
Scott, J. S., 1969, J. Fish. Research Bd. Canada, v. 26 (4), 879-891
trematode parasites of Argentina silus, incidence and intensity in different host length groups, as indicators of change in host feeding habits, not suitable as biological tags to distinguish host populations; Lecithophyllum botryophorum, parasite length/frequency distribution in different host length groups, seasonal variation, parasite life span and growth: western Atlantic
- Growth, Parasite
Seo, B. S.; and Kwak, J. W., 1972, Soul Uidae Chapchi (Seoul J. Med.), v. 13 (4), 221-233
Paragonimus iloktsuenensis, metacercariae, morphology, measurements, growth and development in mice
- Growth, Parasite
Shimura, S.; and Egusa, S., 1979, Bull. Japan. Soc. Scient. Fish. (Nippon Suisan Gakkaishi), v. 45 (10), 1255-1260
Proctoeces ichiharai, general morphology of developmental stages, growth and relative growth of internal organs
- Growth, Parasite
Singhvi, A.; and Johnson, S., 1978, Zool. Anz., Jena, v. 200 (5-6), 417-425
Rictularia jodhpurensis in male and female Rattus rattus of 3 different age categories, incidence, intensity, seasonal variation, parasite sex ratio, parasite length in relation to host weight and worm burden: Jodhpur, India
- Growth, Parasite
Sprent, J. F. A., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 477-485
Ophidascaris spp., Amplicaeum robertsi, review of speciation, development, and geographic distribution with particular reference to migratory behavior and growth in tissues of experimentally infected mice and pythons
- Growth, Parasite
Stallard, H. E.; and Arai, H. P., 1978, Canad. J. Zool., v. 56 (1), 90-93
Hymenolepis peromysci, growth and development of cysticercoids in Tribolium confusum (exper.) and of adult worms in Mesocricetus auratus (exper.)
- Growth, Parasite
Stromberg, P. C.; and Dubey, J. P., [1979], J. Parasitol., v. 64 (6), 1978, 998-1002
Paragonimus kellicotti, life cycle in cats (exper.): migration, development, growth, maturation, distribution in lungs, egg production

Growth, Parasite

Sweeting, R. A., 1976, J. Fish Biol., v. 9 (6), 515-522

Ligula intestinalis, effect on *Rutilus rutilus* population in gravel pit, fall in number of parasitized roach due to predation by other fish, parasitized roach failed to become sexually mature but their actual growth rate was not markedly reduced, plerocercoids grew more rapidly during summer, roach less than 9 months of age should not be introduced into confined waters: southern England

Growth, Parasite

Tinsley, R. C.; and Owen, R. W., 1979, J. Helminth., v. 53 (4), 307-316

Xenopodistomum xenopodis from *Xenopus laevis* (gall bladder), morphology, growth and development, prevalence and intensity of infection, absence of pathological effects, parasite's diet: imported to England from Cape Flats, near Cape Town, South Africa

Growth, Parasite

Uhazy, L. S., 1977, Canad. J. Zool., v. 55 (2), 265-273

Philometroides huronensis, morphology, growth, and development of larval stages in copepods, transmission to *Catostomus commersoni* held at controlled temperatures and photoperiods

Growth, Parasite

Vogel, H., 1978, Tropenmed. u. Parasitol., v. 29 (1), 1-11

Echinococcus multilocularis in *Microtus arvalis* (exper.), cyst growth and structure

Growth, Parasite

Wagland, B. M., 1978, Austral. J. Agric. Research, v. 29 (2), 401-409

Boophilus microplus, development on previously unexposed *Bos indicus* and *B. taurus*, body length measurements for estimation of ages of parasitic stages, growth rates on various body regions of host

Growth, Parasite

Wagland, B. M.; Roberts, J. A.; and Sutherst, R. W., 1979, Internat. J. Parasitol., v. 9 (3), 177-182

Haemaphysalis longicornis, growth of each instar during feeding on *Bos taurus*, criteria based on length which can be used to estimate age of ticks in natural populations

Guadeloupe

Boltanski, E., 1975, Rev. Hyg. et Med. Scol. et Univ., v. 28 (2), 117-122

survey, human intestinal parasites in students of Guadeloupe (trichocephales; Ascaris; ankylostomes; bilharzies; amibes; *Entamoeba coli*; *Lamblia*; oxyures; anguillules; *Hymenolepis nana*)

Guatemala

El n, M. T.; and Palomo Corleto, F., 1973, Rev. Colegio Med. Guatemala, v. 24 (1), 16-26

intestinal parasites, prevalence survey, inhabitants of rural area of Northeastern Guatemala

(*Ascaris lumbricoides*; *Entamoeba histolytica*; *Uncinaria*; *Dientamoeba fragilis*; *Giardia lamblia*; *Trichuris trichiura*; *Strongyloides stercoralis*; *Enterobius vermicularis*; *Taenia saginata*; *T. solium*; *Hymenolepis nana*; *H. diminuta*; *Entamoeba coli*; *Endolimax nana*; *Iodamoeba butschlii*; *Trichomonas hominis*; *Chilomastix mesnili*; *flagelata pequena*; *Be-lantidium coli*)

Guatemala

Mata, L. J.; et al., 1972, Rev. Colegio Med. Guatemala, v. 23 (1), 30-42

fecal survey, enteropathogenic agents in children suffering from dysentery: Guatemala (*Giardia lamblia*; *Strongyloides stercoralis*; *Trichuris trichiura*; *Uncinaria*; *Ascaris lumbricoides*; *Hymenolepis nana*)

- Haiti
Ripert, C.; and Avouac-Borzee, F., 1975, Ann. Soc. Belge Med. Trop., v. 55 (2), 85-93
intestinal helminthiasis, humans, epidemiological survey and comparative study of fecal diagnostic methods
(necatoriasis; ascariasis; trichuriasis; Taenia spp.; H. nana)
- Hatching
Baugh, S. C., 1978, Rev. Iber. Parasitol., v. 38 (1-2), 73-93
Trichobilharzia indica, miracidium, description, mode of hatching
- Hatching
Becker, W., 1977, Ztschr. Parasitenk., v. 52 (1), 69-79
Schistosoma mansoni miracidia in egg, water uptake and metabolic changes, hatching mechanism
- Hatching
Bunnag, T.; de Freitas, J. R.; and Scott, H. G., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 41-47
Schistosoma mansoni, sewage stabilization ponds efficient barrier against transmission, laboratory and field experiments, egg hatchability, miracidia infectivity, and survival of Biomphalaria glabrata
- Hatching
Gold, D.; and Goldberg, M., 1977, Israel J. Zool., v. 25 (4), 1976, 178-185
Fasciola hepatica, separate and combined effect of light and temperature on hatching of eggs
- Hatching
Heath, A. C. G., 1979, Internat. J. Parasitol., v. 9 (1), 33-39
Haemaphysalis longicornis, Ixodes holocyclus, and Rhipicephalus sanguineus eggs, temperature and humidity preferences
- Hatching
Huang, S. W.; et al., 1979, J. Chinese Soc. Vet. Sc., v. 5 (2), 79-85
Fasciola spp., cattle and water buffaloes, morphology, egg hatching time, phototaxis, and infectivity of miracidia to Limnea ollula (exper.), intra-species variation: Taipei abattoir, Taiwan
- Hatching
Imada, R.; and Muroga, K., 1978, Bull. Japan. Soc. Scient. Fish., v. 44 (6), 571-576
Pseudodactylogyrus microrchis on Anguilla anguilla (gills), influence of water temperature on oviposition, hatching and development of parasite
- Hatching
Khotenovskii, I. A., 1975, Parazitologiya, Leningrad, v. 9 (1), 17-27
Diplozoon spp., morphology of eggs and larvae, technique for hatching larvae and their impregnation by silver, distribution of ciliated cells and sensillae in larvae, possible use of egg and larval characters in species differentiation
- Hatching
Macdonald, S.; and Combes, C., 1978, Chronobiologia, v. 4 (3), 277-285
Polystoma integerrimum from Rana temporaria, hatching rhythm of oncomiracidia under different experimental conditions of light and darkness and temperature
- Hatching
Macdonald, S.; and Jones, A., 1978, J. Helminth., v. 52 (1), 23-28
Diplozoon homoiion gracile from Barbus meridionalis, egg-laying and hatching rhythms, probably synchronized to host behavior so as to increase chances of successful invasion by larvae
- Hatching
Nollen, P. M.; Samizadeh-Yazd, A.; and Snyder, D. E., 1979, J. Parasitol., v. 65 (5), 772-776
Philophthalmus spp., longevity and hatchability of miracidia, effects of salinity, pH, and temperature
- Hatching
Rogers, W. P., 1978, Comp. Biochem. and Physiol., v. 61A (2), 187-190
5 spp. of nematodes, inhibitory action of juvenile hormone and its analogues on hatching of eggs, possible mode of action of the hormone as an inhibitor, implications for mechanism of egg hatching
- Hatching
Rupasinghe, D.; and Ogbourne, C. P., 1978, Ztschr. Parasitenk., v. 55 (3), 249-253
strongylid nematodes of horse, free-living stages, effect of temperature on hatching time and development rates
- Hatching
Sathianesan, V.; and Peter, C. T., 1973, Kerala J. Vet. Sc., v. 4 (2), 124-126
Bunostomum trigonocephalum, hatching and development of eggs in vitro, route of infection and prepatent period in goats (exper.)
- Hatching
Tinsley, R. C., 1978, Parasitology, v. 77 (2), 121-132
Eupolystoma anterorchis, oviposition; hatching; oncomiracidium, distribution of tegumental ciliated cells and sensillae, systematic implications
- Heart. [See also Cardiovascular system]
- Heart
Almeida, H. de O.; and Chapadeiro, E., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (5), 293-299
Chagas disease, humans, endocardial changes in apical region
- Heart
Almeida, H. O.; Pereira, R. E. L.; and Tafuri, W. L., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (1), 5-9
human Chagas disease, high number of mast cells in myocardium, possibly responsible for sclerosing character of myocarditis
- Heart
Andrade, J. C. S.; et al., 1976, Rev. Brasil. Med., v. 33, special no., 129-135
Chagas disease, human, tachycardia and aneurysms, case reports, medical and surgical management

Heart

- Andrade, Z. de A., 1974, Rev. Patol. Trop., v. 3 (4), 367-428
Trypanosoma cruzi, histologic changes found in 20 human cases of acute and chronic Chagasic myocarditis and in 5 dogs experimentally infected, extensive pathologic report

Heart

- Anselmi, A., 1971, Recent Advances Stud. Cardiac Struct. and Metab., v. 2, 273-274
Trypanosoma cruzi, infection of human heart, pathology of acute and chronic phases

Heart

- Anselmi, A.; and Moleiro, F., 1974, Ciba Found. Symp., n.s. (20), 125-136
 Chagas' cardiomyopathy, pathogenic mechanisms, review

Heart

- Apt, W.; Arribada, A.; and Maubens, S., 1971, Recent Advances Stud. Cardiac Struct. and Metab., v. 2, 95-105
 human cardiomyopathies resulting from Chagas disease or *Toxoplasma gondii*, etiology, clinical aspects, prognosis, clinicopathological correlations with autopsies, review: Chile

Heart

- Arribada, A.; and Thiermann, E., 1971, Recent Advances Stud. Cardiac Struct. and Metab., v. 2, 655-668
Toxoplasma gondii, human cardiomyopathy, differential diagnosis, clinicoserologic correlations

Heart

- Barros, M. A. M. T.; et al., 1979, Clin. and Exper. Immunol., v. 38 (2), 376-380
Trypanosoma cruzi, patients with chronic cardiomyopathy vs. indeterminate phase of Chagas' disease, leucocyte migration inhibition test using parasite vs. heart antigens

Heart

- Bastaroli, J. C.; et al., 1975, Rev. Argent. Cardiol., v. 43 (6), 421-437
 Chagasic sinus node disease, human, clinical manifestations, case report: Argentina

Heart

- Bronzina, A.; et al., 1977, Rev. Neurol. Argentina, v. 3 (3), 483
Trypanosoma cruzi subcellular antigenic fractions, affinity for rat tissue from Auerbach's plexus and from myocardium, brief report

Heart

- Cammarota, H. E.; Castro, C.; and Aon, J. J., 1972, Rev. Argent. Cardiol., v. 40 (1), 49-54
Toxoplasma gondii, evaluation as cause of human myocarditis, importance of differential diagnosis

Heart

- da Costa Sobrinho, V. M.; Ferreira, D.; and Faria, M., 1972, Rev. Goiana Med., v. 18 (3-4), 215-226
Ascaris lumbricoides, young child, extensive hepatic and intestinal ascariasis with migration of adult worm to right ventricle of heart, clinical and autopsy report: Planaltina (DF), Brasil

Heart

- Czesnel, Z., 1970, Roczniki Pomor. Akad. Med. im. Gen. K. Swierczewskiego Szczecinie, v. 16, 375-390

Trypanosoma equiperdum-infected guinea pigs (exper.), alterations in cardiac muscles, observations on ECG records, histological and histochemical estimations of glycogen content, pyruvic acid levels in blood, evidence of vitamin B₁ deficiency

Heart

- Del Nero, E., jr.; et al., 1974, Rev. Hosp. Clin., S. Paulo, v. 29, suppl., 383-389
 human Chagas cardiac disease, phonomechano-cardiographic parameter of left ventricular systole in pre-clinical infection

Heart

- Del Nero, E., jr.; et al., 1975, Rev. Hosp. Clin., S. Paulo, v. 30 (4), suppl., 281-285
 human Chagas cardiac disease, relationship between the preejection and ejection phases of the left ventricle in chronic infections

Heart

- Doliopoulos, T.; and Andreou, G., 1974, Rev. Brasil. Cardiovas., v. 10 (2), 101-103
 filariasis, with associated coronary insufficiency, case report, young adult male native of Greece who had resided in Congo, Africa

Heart

- Ferreira, A. L.; and Rossi, M. A., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (6), 391-398
 Chagas disease, human, demonstration of degenerative lesions in cardiac autonomic fibers and interstitial cells supports theory that cardiopathy is of neurogenic origin

Heart

- Fischer, P.; and Carneiro, J. R., 1974, An. Escola Agronom. e Vet., v. 4 (1), 53-57
Spirocerca lupi, dog, hemopericardium, case report: Estado de Goias

Heart

- Gear, J. H. S.; and Measroch, V., 1971, Recent Advances Stud. Cardiac Struct. and Metab., v. 2, 141-163
 human filariasis, malaria and trypanosomiasis, etiology in endomyocardial fibrosis and other infective forms of myocarditis, review

Heart

- Goebel, N.; and Gander, M. P., 1977, ROEFO, v. 126 (1), 11-14
 human echinococcal cyst in ventral septum of heart with resulting pulmonary valve stenosis, clinical case report; discussion of clinical features and radiologic diagnosis

Heart

- van den Ingh, T. S. G. A. M.; and de Neijls-Bakker, M. H., 1979, Tropenmed. u. Parasitol., v. 30 (2), 239-243
Trypanosoma vivax-infected cattle, mononuclear pancarditis with extravascular trypanosomes, considered to be local immune response to these extravascular trypanosomes

Heart

- Leak, D.; and Meghji, M., 1979, Am. J. Cardiol., v. 43 (4), 841-849
Toxoplasma gondii, human, toxoplasmic myocarditis, 18 cases in one community, epidemiology, pathology, clinical management: Hamilton, Ontario, Canada

- Heart
Lima, J. P. R., 1969, Rev. Inst. Med. Trop. S. Paulo, v. 11 (4), 290-293
schistosomiasis mansoni, human, granulomatous myocarditis, necropsy study of ectopic lesions
- Heart
Lopes, E. R., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (6), 365-374
Chagas disease, intracardiac autonomic nervous system pathology compared with pathology of rheumatic heart disease and hypertensive heart disease
- Heart
Lopes, E. R.; et al., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (5), 293-297
Chagas disease, humans, chronic infections, heart weights at death compared with heart weights in deaths from other causes, legal medicine aspects
- Heart
Lopes, E. R.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (5), 301-309
Chagas myocarditis, acute human infection with resulting severe cardiac pathology, light and electron microscopic study
- Heart
Machado, A. B. M.; Machado, C. R. S.; and Gomez, M. V., 1979, Exper. Parasitol., v. 47 (1), 107-115
Trypanosoma cruzi-infected rats, acetylcholine content and cholinergic innervation of heart
- Heart
Machado, C. R. S.; Machado, A. B. M.; and Chiari, C. A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 20-24
Trypanosoma cruzi, rats, heart norepinephrine levels at different periods after infection, results suggest that sympathetic nerve fibers are destroyed in acute phase and regenerated during chronic phase
- Heart
Mello de Oliveira, J. A., 1976, Rev. Goiana Med., v. 22 (1-2), 1-65
Trypanosoma cruzi, human, histopathology of myocardium, enzyme histochemical changes in Chagasic cardiomyopathy
- Heart
Miles, M. A.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 528-532
Trypanosoma cruzi, exper. infections in rhesus monkeys, electrocardiographic and histopathologic changes
- Heart
Pereira Barretto, A. C.; et al., 1974, Rev. Hosp. Clin., S. Paulo, v. 29, suppl., 399-405
human Chagas heart disease, phonomechanographic parameters of left ventricular systole and endocardial pacemaker in chronic infection
- Heart
Pereira-Barretto, A. C.; et al., 1975, Rev. Hosp. Clin., S. Paulo, v. 30 (4), suppl., 270-274
human Chagas cardiac disease, phonocardiographic systolic parameters and complete heart block
- Heart
Poltera, A. A.; and Cox, J. N., 1977, Virchows Arch. A, Path. Anat. and Histol., v. 375 (1), 53-70
pancarditis with valvulitis in endomyocardial fibrosis and in human African trypanosomiasis, comparative study of 2 cases of each, possible relationship: Uganda
- Heart
Pugliese, C.; Lessa, I.; and Santos Filho, A., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (3), 191-201
Chagas disease, survival time of humans with decompensated chronic cardiomyopathy, congestive heart failure may be important limiting factor in survival time
- Heart
Raso, P.; and Tafuri, W. L., 1971, Rev. Soc. Brasil. Med. Trop., v. 5 (3), 135-153
T[rypanosomal] cruzi, humans, pathologic pericardial alterations compared with those seen in rheumatic and hypertensive heart disease, analysis of changes of acute and chronic infection, study of changes in exper. infections in mice
- Heart
Salgado Filho, W.; et al., 1976, AMB, Rev. Ass. Med. Brasil., v. 22 (7), 237-240
Chagas disease, outpatients, review of cases from 1960-1970, decreased incidence of cardiopathy: Hospital das Clinicas de Ribeirao Preto
- Heart
Sanz Malaga, G.; Morales Gonzales, W.; and Boza Revilla, A., 1975, Rev. Peruana Cardiol., v. 18 (1), 5-21
Chagas disease, chronic cardiomyopathy, pathology
- Heart
Scorza, C.; and Scorza, J. V., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (3), 171-177
Trypanosoma cruzi, rats, pathology of myocardial lesions
- Heart
Tafuri, W. L.; et al., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (6), 347-370
Trypanosoma cruzi, human, chronic myocarditis, electron microscopic study of heart muscle cells and interstitial tissue, description of types of lesions
- Heart
Teixeira, A. R. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1097-1107
Chagas' disease, serum antibody titers, delayed skin response, inhibition of leukocyte migration by Trypanosoma cruzi antigen and by cross-reactive heart cell antigen, cytotoxicity of sensitized T-lymphocytes to parasitized human heart cells
- Heart
Teixeira, J.; et al., 1975, Rev. Brasil. Med., v. 32 (4), 221-227
Chagas disease, human, resulting ventricular aneurysm, clinical case report, successful surgical repair: Bahia, Brazil
- Heart
Widmer, C. G.; and Azevedo, E. S., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (2), 109-113
Trypanosoma cruzi, leishmanial forms found more frequently in cardiac fibers of men than of women, autopsy survey, possible explanations

Heat. See Temperature.

Helminthiasis, Human

- de la Loza Saldivar, A.; Cura Vazquez, J.; and Sarabia Moreno, A., 1975, Salud Pub. Mexico, v. 17 (6), 757-776
death rates from parasitic and transmissible diseases, statistical survey, projections for the future, includes amoebiasis and helminthiasis: Mexico

Helminthology, Manuals and textbooks

- Abuladze, K. I.; Demidov, N. V.; and Gil'denblat, A. A., 1975, Parazitol. i Invaz. Bolezni Sel'skokhoz. Zhivot. (Abuladze), 218-458
veterinary helminthology

Helminthology, Manuals and textbooks

- Benazzi, M.; and Benazzi Lentati, G., 1976, Animal Cytogenet., v. 1, 182 pp.
platyhelminthes, gametogenesis, chromosome pattern, cycles, and evolution, reproductive mechanisms, cytotaxonomy

Helminthology, Manuals and textbooks

- Dunn, A. M., 1978, Veterinary helminthology, 2. ed., 323 pp., illus.

Helminthology, Manuals and textbooks

- Linnik, V. Ia., 1977, [Parasites of fish, harmful to humans and animals], 94 pp., illus.
helminths of fishes harmful to humans and other animals, descriptive manual, control measures

Helminthology, Manuals and textbooks

- Lyons, K. M., 1978, Studies Biol. (102), 60 pp.
helminths, parasitism, attachment and maintenance in host, feeding and respiration, reproduction and transmission, host-parasite relationships, evolution

Helminthology, Manuals and textbooks

- Wright, C. A., 1971, Sc. Biol. Ser. (4), 168 pp.
flukes parasitic in vertebrate animals and their mollusc vectors, life cycles, ecology, host-parasite relationships, taxonomy

Helminths

- Skrjabin, K. I.; Shul'ts, R. S.; and Gvozdev, E. V., 1971, Parazitologiya, Leningrad, v. 5 (2), 179-181
clarification of the concept 'helminths' as an ecological (but not a taxonomic) group within the superphylum Scolecida

Helminths, Parasites of. See Hyperparasitism.

Hemagglutination. See Immunity, Agglutination.

Hematocrit. See Anemia; Blood.

Hematuria. See Urine and urinary tract.

Hemocytes. See Blood; Hemolymph.

Hemoglobin. [See also Anemia; Blood; Pigments]

Hemoglobin

- Bogitsh, B. J., 1978, Exper. Parasitol., v. 45 (2), 247-254
Schistosoma mansoni, uptake and fate of exogenous hemeproteins (horseradish peroxidase and hemoglobin) by schistosomes maintained in vitro

Hemoglobin, Host

- Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 161-175
Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to moderate primary infection, concluded that genetic resistance operated primarily against worm establishment and was probably controlled by the immune response elicited, in heavy infections there was no correlation between worm establishment and haemoglobin type

Hemoglobin, Host

- Altaif, K. I.; and Dargie, J. D., 1978, Parasitology, v. 77 (2), 177-187
Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to re-infection (either after primary infection was terminated with anthelmintic or challenge superimposed on existing adult infection), patterns of worm establishment and disease indicated that genetic factors operated in determining resistance, breed but not haemoglobin type appeared to be of some significance in 'self-cure'

Hemoglobin, Host

- Altaif, K. I.; and Dargie, J. D., 1978, Research Vet. Sc., v. 24 (3), 391-393
Ostertagia circumcincta, Scottish Blackface sheep of different haemoglobin type, sheep of haemoglobin type A more resistant to infection than type B

Hemoglobin, Host

- Arandas, E. M. C. de A.; Loureiro, S.; and Azevedo, E. S., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (5), 283-285
possible effect of human hemoglobin S on blood meal size of Rhodnius prolixus (vector of human South American trypanosomiasis)

Hemoglobin, Host

- Beier, T. V.; and Sidorenko, N. V., 1972, Parazitologiya, Leningrad, v. 6 (4), 385-390
haemogregarine-infected erythrocytes of Lacerta armeniaca and L. saxicola nairensis, changes in hemoglobin and total protein content

Hemoglobin, Host

- Cuperlovic, K.; Altaif, K. I.; and Dargie, J. D., 1978, Research Vet. Sc., v. 25 (1), 125-126
sheep with hemoglobin AA showed better antibody response to some non-parasitic antigens than those with hemoglobin BB, results indicate that greater resistance of the former sheep to gastrointestinal nematodes is a reflection of superior immunological competence

Hemoglobin, Host

- Fleming, A. F.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 161-172
Plasmodium spp., human, prevalence of abnormal hemoglobins, relationships between sickle cell trait, malaria and survival of host: Garki District, Kano State, Nigeria

Hemoglobin, Host

Friedman, M. J., 1978, Proc. National Acad. Sc., v. 75 (4), 1994-1997

Plasmodium falciparum, development in cells with sickle cell hemoglobin, results suggest that mechanism of sickle cell resistance in vivo may be due solely to intraerythrocytic conditions

Hemoglobin, Host

Friedman, M. J.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 777-780

Plasmodium falciparum, in vitro cultures, host cell competence of abnormal hemoglobin-containing erythrocytes, evolutionary significance of results

Hemoglobin, Host

Fusco, A. C., 1978, Exper. Parasitol., v. 44 (2), 155-160

Spirocamallanus cricotus in *Micropogonias undulatus*, parasite and host hemoglobin, characterization by isoelectric focusing and spectrophotometry revealed differences

Hemoglobin, Host

Greenberg, E. R.; and Cline, B. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 770-772

Trichuris trichiura, children with high prevalence of infection, study showed no association between infection and iron deficiency anemia although hemoglobin values tended to be slightly lower: Vieques Island, Puerto Rico

Hemoglobin, Host

Imohiosen, E. A. E.; and Adadevoh, B. K., 1979, Niger. Med. J., v. 9 (4), 487-491

parasitic infestations in women using different types of contraceptive devices compared with women using no devices and with males, results correlated with haemoglobin levels of all groups, only malaria of anaemia-inducing infections occurred with significant variation, course of infections may be enhanced by presence of contraceptives

Hemoglobin, Host

Kurlekar, N.; and Mehta, B. C., 1979, Indian J. Med. Research, v. 70, 206-208

diagnostic accuracy of beta thalassemia trait based on haemoglobin-A2 levels in an individual or population not altered by the presence of malarial infections

Hemoglobin, Host

Laser, H.; and Klein, R., 1979, Nature, London (5723), v. 280, 613-614 [Letter]

Plasmodium falciparum, protection given by haemoglobin S in heterozygotes for sickle cell gene, rebuttal to hypothesis of Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1978, Nature, London (5672), v. 274, 701-703

Hemoglobin, Host

Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1978, Nature, London (5672), v. 274, 701-703

Plasmodium falciparum, hemoglobin S has detrimental effect on parasite proliferation, this involves both invasion into red cell and growth once inside and requires conditions of low oxygen tension, actual sickling of cells concerned is not necessary, provides explanation for protection of sickle cell heterozygotes against *P. falciparum* malaria and thus for high frequency of sickle-cell gene in parts of world where malaria is or has been endemic

Hemoglobin, Host

Pasvol, G.; Weatherall, D. J.; and Wilson, R. J. M., 1979, Nature, London (5723), v. 280, 614 [Letter]

Plasmodium falciparum, protection given by haemoglobin S in heterozygotes for sickle cell gene, answer to rebuttal of Laser, H.; and Klein, R., 1979, Nature, London (5723), v. 280, 613-614

Hemoglobin, Host

Preston, J. M.; and Allonby, E. W., 1979, Research Vet. Sc., v. 26 (2), 140-144

Haemonchus contortus, sheep, influence of haemoglobin phenotype on susceptibility to infection: Kenya

Hemoglobin, Host

Santos, L. E.; et al., 1977, Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo, v. 14 (1), 149-169

treated and untreated Guzera heifers compared for weight gains, hemoglobin levels, and helminth infestation: region of Sertaozinho, Sao Paulo, Brazil

Hemoglobin, Host

Van Ros, G.; et al., 1972, Ann. Soc. Belge Med. Trop., v. 52 (6), 515-530

Plasmodium berghei berghei, inbred mouse strain partially resistant to infection, surveillance of hemoglobins and glucose-6-phosphate-dehydrogenase changes from 12th day of gestation to 3rd day after birth, no correlations with *Plasmodium* resistance

Hemoglobin, Host

Van Ros, G.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 659-663

Plasmodium spp.-infected patients, hemoglobin A₂ levels not statistically different from healthy controls, malaria is thus unlikely to influence results of surveys for β -thalassemia in malaria-endemic areas

Hemoglobin, Parasite

Fusco, A. C., 1978, Exper. Parasitol., v. 44 (2), 155-160

Spirocamallanus cricotus in *Micropogonias undulatus*, parasite and host hemoglobin, characterization by isoelectric focusing and spectrophotometry revealed differences

Hemoglobin, Parasite

Suzuki, T.; and Ishida, K., 1979, Exper. Parasitol., v. 48 (2), 225-234

Anisakis, physicochemical properties of larval and adult hemoglobins, evidence suggests relationship between Type I larva and *A. simplex* and between Type II larva and *A. physeteris*; general considerations on differences in parasite hemoglobin as basis for taxonomic distinction

Hemoglobin, Parasite

Tuchschmid, P. E.; Kunz, P. A.; and Wilson, K. J., 1978, European J. Biochem., v. 88 (2), 387-394

Dicrocoelium dendriticum, hemoglobin, isolation and characterization

Hemoglobinuria. See Urine and urinary tract.

Hemolymph

Barker, R. J.; and Lehner, Y., 1976, J. Med. Entom., v. 13 (3), 379-380

Rhipicephalus sanguineus, *Dermacentor Andersoni*, hemolymph sugar content analyzed

Hemolymph

- Brockelman, C. R., 1978, Ztschr. Parasitenk., v. 57 (2), 137-144
Angiostrongylus cantonensis-infected *Achatina fulica*, effects of parasitism and stress on hemolymph protein

Hemolymph

- Cheng, T. C.; et al., 1978, J. Invert. Path., v. 31 (1), 57-62
Echinostoma lindoense-infected *Biomphalaria glabrata*, elevation of aminopeptidase activity in hemocytes and serum, possible that this lysosomal enzyme may degrade surface proteins of secondarily introduced parasites and thus act as form of acquired humoral immunity

Hemolymph

- Emara, S. H.; and El-Ghaeb, F. M., 1978, Indian J. Exper. Biol., v. 16 (3), 378-381
Schistosoma mansoni, total proteins and free amino acids in hemolymph of *Biomphalaria alexandrina* and *Helisoma duryi* pre- and post-exposure to miracidia

Hemolymph

- Gordon, R.; et al., 1978, Parasitology, v. 77 (3), 367-374
Neomesomeris fluminalis in *Prosimulium mixtum/fuscum* and *Simulium venustum*, effects of parasitism on hemolymph composition (protein, amino acid, carbohydrate), relation to nematode's nutritional requirements

Hemolymph

- Gordon, R.; et al., 1979, Comp. Biochem. and Physiol., v. 64B (4), 369-374
Romanomeris culicivora, *Neomesomeris fluminalis*, lipids in storage organs of nematodes and in hemolymph of uninfected *Prosimulium mixtum/fuscum*, *Simulium venustum*, and infected and uninfected *Aedes aegypti*

Hemolymph

- Herberts, C., 1978, Compt. Rend. Acad. Sc., Paris, v. 286, s. D, Sc. Nat. (9), 725-728
Sacculina carcini-parasitised *Carcinus mediterraneus*, immunochemical analysis of hemolymph confirms presence of protein fraction not observed in healthy crabs, some infested crabs develop anti-*Sacculina* precipitin reaction

Hemolymph

- Kamionek, M.; Sandner, H.; and Seryczynska, H., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (12), 791-793
Pristionchus uniformis in *Galleria mellonella* (exper.), shortening of lifetime, changes in hemolymph

Hemolymph

- Kassim, O. O.; and Richards, C. S., 1978, Exper. Parasitol., v. 46 (2), 213-217
Schistosoma mansoni, levels of lysozyme activity in *Biomphalaria glabrata* (hemolymph, digestive gland, and headfoot extracts) during infection with compatible and incompatible parasite strains, results suggest that lysozyme does not by itself play a major role in the destruction of a schistosome infection in a resistant snail host

Hemolymph

- Kassim, O. O.; and Richards, C. S., 1978, Exper. Parasitol., v. 46 (2), 218-224
Biomphalaria glabrata (intermediate host of *Schistosoma mansoni*), lysozyme activities in hemolymph, digestive gland, and headfoot of uninfected snails

Hemolymph

- Mack, S. R.; Samuels, S.; and Vanderberg, J. P., 1979, J. Parasitol., v. 65 (1), 130-136
Plasmodium berghei-infected and uninfected *Anopheles stephensi*, free amino acids in hemolymph

Hemolymph

- Mack, S. R.; Samuels, S.; and Vanderberg, J. P., 1979, J. Parasitol., v. 65 (2), 217-221
Plasmodium berghei-infected and noninfected *Anopheles stephensi*, carbohydrates in hemolymph

Hemolymph

- Mack, S. R.; and Vanderberg, J. P., 1978, J. Parasitol., v. 64 (5), 918-923
Plasmodium berghei-infected and noninfected *Anopheles stephensi*, hemolymph, technique for collection, physical characteristics

Hemolymph

- Pascoe, D., 1970, Acta Parasitol. Polon., v. 18 (27-41), 359-368
Microphallus spp.-infected vs. uninfected *Littorina saxatilis tenebrosa* var. *similis*, protein fractions in haemocoelic fluid as revealed by electrophoretic examination, possible association with immunity

Hemolymph

- Rutherford, T. A.; and Webster, J. M., 1978, Canad. J. Zool., v. 56 (2), 339-347
Mermis nigrescens-infected *Schistocerca gregaria*, trehalose, glucose, free amino acid, and lipid fatty acid composition of hemolymph

Hemolymph

- Stanislawski, E.; and Becker, W., 1979, Comp. Biochem. and Physiol., v. 63A (4), 527-533
Biomphalaria glabrata, influences of semi-synthetic diets, starvation, and *Schistosoma mansoni* infection on metabolism (using criteria of egg-laying activity and hemolymph components)

Hemolymph

- Stanislawski, E.; Becker, W.; and Mueller, G., 1979, Comp. Biochem. and Physiol., v. 63B (4), 477-482
Biomphalaria glabrata, alterations of free amino acid content in hemolymph in starvation and after infection with *Schistosoma mansoni*

Hemolymph

- Stein, P. C.; and Basch, P. F., 1979, J. Invert. Path., v. 33 (1), 10-18
Biomphalaria glabrata, purification of hemagglutinin from hemolymph, albumin glands, and egg masses, binding to *Schistosoma mansoni* larval stages in vitro and in vivo

Hemorrhage

- Hansen, D. P.; and Daly, D. S., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 197-200
acute upper gastrointestinal hemorrhage, fibre-endoscopic study, results include dramatic association of esophageal varices and tribes with endemic schistosomiasis mansoni: Kenyatta National Hospital, Nairobi, Kenya

Hepatitis. See Liver.Heredity. See Genetics.

Hibernation

- Beier, T. V., 1979, Tsitologiya, v. 21 (3), 295-299

Karyolysis sp. trophozoites, interaction with lizard liver cells during host hibernation: lake Sevan, Armenia

Hibernation

- Kunz, T. H., 1976, J. Med. Entom., v. 12 (6), 631-636

Trichobius corynorhini on hibernating Plecotus townsendii, parasite distribution on host, frequency and levels of infestation in relation to host density and clustering behavior and sex, value of these adaptations

Hibernation

- Rau, M. E.; and Gordon, D. M., 1978, Canad. J. Zool., v. 56 (8), 1765-1767

helminths overwintering in garter snakes, host hypobiosis not accompanied by significant changes in prevalence or intensity of parasite infections: Ille Perrot, Province Quebec, Canada

Hibernation

- Sawyer, T. K.; Newman, M. W.; and Otto, S. V., 1975, Proc. National Shellfish Ass., v. 65, 1974, 15-19

regarines, possibly Nematopsis-Porospora group in Crassostrea virginica, seasonal pathology suggests that parasites overwinter in hibernating oysters, undergo vegetative growth in the spring, and then perish or undergo further development in an unknown host

Hibernation

- Sosnina, E. F.; and Davydov, G. S., 1975, Parazitologiya, Leningrad, v. 9 (2), 183-189
Neohaematopinus palaeartus infestation of Marmota caudata in relation to geographic regions and vertical zones, season, host activity period (hibernation, reproduction, etc.), host age and sex, age and sex structure of louse populations: Tadzhikistan

Histochemistry. [See also Biochemistry; Metabolism]

Histochemistry

- Harley, J. P.; and Moore, G., 1974, Acta Parasitol. Polon., v. 22 (1-11), 25-27
Trichinella spiralis, Alcian blue histochemistry of cyst wall in mouse, consists of outer acid mucopolysaccharide layer bound to sulfated collagen

Histochemistry, Host

- Arakcheeva, S. G.; Zubitskaia, M. A.; and Isaeva, Kh. B., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (1), 81-84
Hymenolepis nana, mice, comparative histochemical study of nucleic acids, carbohydrates, and alkaline phosphatase in parasite and in host

Histochemistry, Host

- Karyakarte, P. P.; and Yadav, B. B., 1976, Marathwada Univ. J. Sc. (Nat. Sc.), v. 15 (8), 97-99
amphistome larvae, glycogen deposition in hepatopancreas of Indoplanorbis exustus, histochemistry

Histochemistry, Host

- Muresan, E.; Duca, C.; and Papay, Z., 1975, 25. Internat. Apicult. Cong. (Grenoble, Sept. 8-14), 384-385
Nosema apis, healthy and infected Apis mellifica carpatica, histochemical indices of mid-gut

Histochemistry, Host

- Poliakova-Krusteva, O.; and Krustev, L., 1972, Virchows Arch. B, Cell Path., v. 11 (4), 334-342
Fasciola hepatica-infected rabbits, enzyme-histochemical studies of pathological process in liver

Histochemistry, Host

- Rengaraju, V., 1979, Current Sc., Bangalore, v. 48 (17), 765-768
Porrochis indicus-infected Centropus sinensis, histological and histochemical alterations in intestine

Histochemistry, Host

- Sahay, M. N.; Sahai, B. N.; and Prasad, G., 1977, Indian J. Animal Sc., v. 47 (12), 814-818
Schistosoma nasale, histochemical alterations of livers, lungs, and hearts of mice, guinea-pigs, and rabbits and of livers of kids and lambs (all exper.)

Histochemistry, Host

- Stadnichenko, A. P., 1972, Parazitologiya, Leningrad, v. 6 (2), 154-160
10 trematode spp. in Viviparus viviparus, pathogenic effect studied by histological and histochemical methods, host sex differences with respect to parasite occurrence, intensity, and localization: Ukraine [and/or] lower Volga

Histochemistry, Host

- Stadnichenko, A. P., 1974, Parazitologiya, Leningrad, v. 8 (5), 420-425
Bucephalus polymorphus parthenites in Unio pictorum and Anodonta piscinalis, incidence and intensity, host age and sex, histopathological and histochemical effects: Ukraine

Histochemistry, Host

- Telles de Jesus Filho, M.; and Miraglia, T., 1977, Acta Histochem., v. 59 (1), 160-167
Sarcocystis fusiformis cysts in ox heart, histochemical (primarily histoenzymologic) observations, implications for parasite metabolism, no inflammatory reactions found around cysts and enzymatic reactivity of muscle fibers near to cysts was not different from normal fibers

Histochemistry, Parasite

- Arakcheeva, S. G.; Zubitskaia, M. A.; and Isaeva, Kh. B., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (1), 81-84
Hymenolepis nana, mice, comparative histochemical study of nucleic acids, carbohydrates, and alkaline phosphatase in parasite and in host

- Histochemistry, Parasite
Bennett, J. L.; Seed, J. L.; and Boff, M., 1978, J. Parasitol., v. 64 (5), 941-944
Schistosoma mansoni, development of rapid, simple, and sensitive fluorescence histochemical method for detecting phenol oxidase activity in female worms, results further demonstrate critical role of phenol oxidase in egg production
- Histochemistry, Parasite
Bhutta, M. S., 1977, Biologia, Lahore, v. 23 (2), 103-109
Cercaria parvicaudata, morphology and histochemistry of penetration and cystogenous gland cells
- Histochemistry, Parasite
Binnington, K. C., 1978, Internat. J. Parasitol., v. 8 (2), 97-115
Boophilus microplus, salivary glands during attachment and feeding, gross anatomy, number of cell types and changes in morphology during development, histochemistry, enzymes, physiological functions of cell secretions
- Histochemistry, Parasite
Bogoiavlenskii, Iu. K.; Ivanova, G. V.; and Spasskii, A. A., 1974, [Nervous system of parasitic nematodes.], 190 pp., illus.
Nematoda, neurosecretion, nervous system, morphology, histochemistry, cytology, review monograph
- Histochemistry, Parasite
Chinery, W. A., 1974, J. Med. Entom., v. 11 (4), 480-487
Argas persicus salivary glands, Types I and II alveoli, cytological and histochemical observations, structure and function compared with those of other ticks
- Histochemistry, Parasite
Coste, F.; Raibaut, A.; and Bouix, G., 1978, Bull. Soc. Zool. France, v. 103 (4), 465-481
Lernanthropus kroyeri, male genital system, microscopic morphology and anatomy, histochemical composition of spermatophoral secretions
- Histochemistry, Parasite
Davies, C., 1979, Internat. J. Parasitol., v. 9 (6), 553-564
Microphallus similis metacercariae and adults, forebody glands and surface features, scanning and transmission electron microscopy, cytochemistry, ultracytochemistry
- Histochemistry, Parasite
Davydov, V. G., 1975, Inform. Biul. Inst. Biol. Vnutren. Vod, Akad. Nauk SSSR (27), 17-20
Triaenophorus nodulosus, localization and dynamics of glycogen and lipids in all developmental stages
- Histochemistry, Parasite
Dixon, K. E.; and Colton, M., 1978, Internat. J. Parasitol., v. 8 (6), 491-499
Cloacitrema narrabeenensis, cystogenic cells in mature cercariae, surface structures of cercaria, formation of metacercarial cyst wall, light and electron microscopic and histochemical study
- Histochemistry, Parasite
Eduardo, S. L., [1977], Philippine J. Vet. Med., v. 15 (1-2), 117-122
Carmyerius synthes and Gastrothylax crumenifer from slaughtered animals, egg-shell formation, histochemical observations
- Histochemistry, Parasite
Feldman-Muhsam, B.; and Borut, S., 1978, J. Insect Physiol., v. 24 (10-11), 693-697
Ornithodoros savignyi, spermatophore, morphology and histochemistry, stages in formation
- Histochemistry, Parasite
Fried, B.; Robbins, S. H.; and Nelson, P. D., 1978, J. Parasitol., v. 64 (3), 395-397
Zygocotyle lunata metacercariae, excystation in vivo (lower ileum of domestic chick) and in vitro, histochemistry of cyst
- Histochemistry, Parasite
Ginetsinskaia, T. A.; et al., 1971, Parazitologia, Leningrad, v. 5 (2), 147-154
platyhelminths (47 species), glycogen and fat distribution in yolk glands and complex eggs, accumulation of reserve substances in yolk glands appears to vary with type of egg development (in external environment vs. in uterus of parent), digenetic trematodes accumulate only glycogen and not fat
- Histochemistry, Parasite
Gulka, G. J.; and Fried, B., 1979, Internat. J. Parasitol., v. 9 (1), 57-59
Echinostoma revolutum, metacercarial cyst, histochemistry and ultrastructure
- Histochemistry, Parasite
Gupta, S. P.; and Srivastava, M., [1979], An. Inst. Biol., Univ. Nac. Mexico, v. 48 (1), s. Zool., 1977, 27-36
Isoparorchis hypselobagri, distribution and amount of glycogen in unstarved, starved, and starved/refed parasites, resynthesis, biochemical and histochemical studies
- Histochemistry, Parasite
Halton, D. W.; and Hendrix, S. S., 1978, Ztschr. Parasitenk., v. 57 (3), 237-241
Lobatostoma ringens, chemical composition and histochemistry
- Histochemistry, Parasite
Hillman, G. R.; Gibler, A. M.; and Anderson, J. W., 1978, J. Pharmacol. and Exper. Therap., v. 207 (3), 992-997
Schistosoma mansoni, anticholinergic drugs as inhibitors of labeling of parasite by a fluorescent derivative of acetylcholine, scanning microfluorimetric system
- Histochemistry, Parasite
Ho, Y. H.; and Yang, H. C., 1974, Tung Wu Hsueh Pao (Acta Zool. Sinica), v. 20 (3), 243-262
Schistosoma japonicum, egg formation and chemical nature of egg shell, histological and histochemical study, morphological changes in egg formation following treatment of infected mice with thiourea compounds
- Histochemistry, Parasite
Hollis, P. D., 1979, J. Parasitol., v. 65 (3), 461-463
Porocephalus crotali, alkaline phosphatase activity, histochemical distribution

- Histochemistry, Parasite**
Howells, R. E.; and Bafort, J. M., 1970, Ann. Soc. Belges Med. Trop. Parasitol., v. 50 (5), 587-594
Plasmodium berghei berghei, pre-erythrocytic schizonts in liver of *Thamnomys surdaster*, presence of various respiratory enzymes demonstrated, light microscope histochemical techniques
- Histochemistry, Parasite**
Jones, B. R.; Smith, B. F.; and LeFlore, W. B., 1979, Cytobios (95-96), v. 24, 195-209
Hydatigera taeniaeformis cysticercus, alkaline phosphatase activity, ultrastructural localization in tegument
- Histochemistry, Parasite**
Kalyankar, S. D.; and Mane, U. H., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 187-195
isoparorchid metacercaria, neurosecretory cells, histology and histochemistry
- Histochemistry, Parasite**
Karyakarte, P. P.; and Chawda, D. B., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 197-201
Tremiorchis ranarum, neurosecretory cells, histochemistry
- Histochemistry, Parasite**
Lee, M. B.; Bueding, E.; and Schiller, E. L., 1978, J. Parasitol., v. 64 (2), 257-264
Hymenolepis diminuta, H. nana, 5-hydroxytryptamine, presence and distribution in nervous systems detected by biochemical and histochemical methods, occurs in pattern similar to that of acetylcholinesterase, lack of 5-HT in vestigial rostellum of *H. diminuta* may be correlated with loss of function of this organ
- Histochemistry, Parasite**
LeFlore, W. B., 1978, Exper. Parasitol., v. 46 (1), 83-91
Plagiorchis elegans cercariae, histochemical localization of dehydrogenases, metabolic implications
- Histochemistry, Parasite**
LeFlore, W. B., 1979, Tr. Am. Micr. Soc., v. 98 (2), 225-232
Plagiorchis elegans, histochemical localization of hydrolytic enzymes, morphology of nervous system
- Histochemistry, Parasite**
Machnicka, B.; et al., 1977, Acta Parasitol. Polon., v. 25 (1-10), 55-62
Cysticercus bovis in calves (exper.), morphogenesis, localization, host tissue reaction, immunological findings in indirect immunofluorescence test, histological and histochemical study of bladder
- Histochemistry, Parasite**
Mandawat, S.; and Sharma, P. N., 1978, Indian J. Exper. Biol., v. 16 (9), 968-972
Paramphistomum cervi, acetyl and butyryl cholinesterase, histochemical distribution
- Histochemistry, Parasite**
Messner, B.; and Kerstan, U., 1978, Acta Histochem., v. 62 (2), 244-253
nematodes (including 11 parasitic species) and insects, histochemical evidence of peroxidase
- Histochemistry, Parasite**
Michael, A. I.; and Awadalla, H. N., 1976, J. Egypt. Vet. Med. Ass., v. 35 (4), 9-16
Fasciola hepatica, distribution of enzymes, histochemical study
- Histochemistry, Parasite**
Miller, R. E.; and Kemp, W. M., 1979, J. Parasitol., v. 65 (2), 318-320
Schistosoma mansoni, modification of new technique for immunohistochemical localization of cell surface components
- Histochemistry, Parasite**
Moczon, T., 1971, Acta Parasitol. Polon., v. 19 (19-28), 269-274
Hymenolepis diminuta, histochemical study of development of embryonic hooks
- Histochemistry, Parasite**
Moczon, T., 1974, Acta Parasitol. Polon., v. 22 (22-34), 323-329
Hymenolepis diminuta, non-specific and specific phosphatases in mature specimens, histochemical studies, results suggest that tegument should be considered a digestive-absorbing organ
- Histochemistry, Parasite**
Moczon, T., 1975, Acta Parasitol. Polon., v. 23 (41-51), 569-592
Hymenolepis diminuta, histochemical localization of enzymes of glycogen metabolism in tissues of mature parasites
- Histochemistry, Parasite**
Moczon, T., 1977, Acta Parasitol. Polon., v. 25 (1-10), 45-54
Hymenolepis diminuta, mature cestodes, oncospheres, cysticercoids, histochemical localization of enzymes of glycogen metabolism
- Histochemistry, Parasite**
Moczon, T., 1977, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 25 (9), 619-622
Hymenolepis diminuta oncospheres, penetration gland secretion is a protein substance, histochemical studies
- Histochemistry, Parasite**
Mohsin, S.; and Farooqi, H. U., 1979, Geobios, v. 6 (2), 60-63
Pallisentis ophiocephali, histochemical observations on localization of glycogen, proteins, acid mucopolysaccharides and lipids
- Histochemistry, Parasite**
Omar, M. S.; and Kuhlow, F., 1977, Tropenmed. u. Parasitol., v. 28 (4), 467-470
Wuchereria bancrofti microfilaria, cholinesterase activity demonstrated in amphids, phasmids, nerve-ring, excretory and anal vesicles
- Histochemistry, Parasite**
Parshad, V. R.; and Guraya, S. S., 1978, Parasitology, v. 77 (2), 133-138
Centrorhynchus corvi, oocyte atresia in ovarian balls, morphological and histochemical observations

- Histochemistry, Parasite**
 Parshad, V. R.; and Guraya, S. S., 1978, J. Helminth., v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients
- Histochemistry, Parasite**
 Parshad, V. R.; and Guraya, S. S., 1978, Ztschr. Parasitenk., v. 55 (3), 199-208
Ascaridia galli, morphological and histochemical observations on intestinal epithelium
- Histochemistry, Parasite**
 Ramalingam, K., [1972], An. Inst. Biol., Univ. Nac. Mexico, v. 41 (1), s. Zool., 1970, 145-154
Pricea multae, and other trematodes, role of vitelline cells and Mehli's gland in formation of egg-shell
- Histochemistry, Parasite**
 Roy, T. K., 1979, J. Helminth., v. 53 (1), 45-49
Raillietina johri, nonspecific and specific phosphatases, histochemical localization
- Histochemistry, Parasite**
 Roy, T. K., 1979, J. Helminth., v. 53 (3), 261-263
Raillietina johri, nucleoside diphosphatase, thiamine pyrophosphatase, histochemical localization
- Histochemistry, Parasite**
 Segida, G. V., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 80-88
Ascaridia galli, levels and localization of RNA, alkaline phosphatase and glycogen in nerve cells of both sexes of adult worms
- Histochemistry, Parasite**
 Sharma, P. N., 1978, J. Helminth., v. 52 (2), 159-162
Ceylonocotyle scolio-coelium, histochemical distribution of succinic dehydrogenase in lymphatic system, enzyme activity appeared in form of diformazon granules which are believed to consist of mitochondrial aggregates, suggested that this enzyme helps in transportation of metabolites
- Histochemistry, Parasite**
 Sharma, P. N., 1978, Current Sc., Bangalore, v. 47 (22), 877-879 [Letter]
Glossimetre orientalis, *Ceylonocotyle scolio-coelium*, prostate glands, histochemical localization of certain enzymes and non-enzyme substances
- Histochemistry, Parasite**
 Sharma, P. N., 1978, Indian J. Exper. Biol., v. 16 (11), 1202-1203
Ceylonocotyle scolio-coelium, monoamine oxidase, histochemical localization in lymphatic system, enzyme activity recorded in form of granules which represent mitochondria
- Histochemistry, Parasite**
 Sharma, P. N., 1979, Indian J. Exper. Biol., v. 17 (5), 479-483
 10 digenetic trematodes, histochemical localization of glycogen, lipids, proteins, and phosphatases in parenchyma and other tissues
- Histochemistry, Parasite**
 Sharma, P. N., 1979, Indian J. Exper. Biol., v. 17 (5), 525-528
Ceylonocotyle scolio-coelium, histochemical distribution of succinate dehydrogenase
- Histochemistry, Parasite**
 Sharma, P. N., 1979, Indian J. Exper. Biol., v. 17 (11), 1268-1271
Ceylonocotyle scolio-coelium, histochemical detection of specific and non-specific cholinesterase activity in nervous system
- Histochemistry, Parasite**
 Sharma, P. N.; and Hora, C., 1979, Indian J. Exper. Biol., v. 17 (11), 1271-1273
Paramphistomum cervi, histochemical demonstration of monoamine oxidase in tissues
- Histochemistry, Parasite**
 Shishov, B. A., 1973, Parazitologiya, Leningrad, v. 7 (5), 475-478
Macracanthorhynchus hirudinaceus, *Acanthocephalus lucii*, cholinesterase activity in muscular and nervous tissue
- Histochemistry, Parasite**
 Shishov, B. A.; and Chuprov, A. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 133-140
Ascaridia galli, cholinesterase activity in nerve and muscle tissue
- Histochemistry, Parasite**
 Singh, S. P.; and Sinha, D. P., 1979, Indian J. Animal Research, v. 13 (1), 27-30
 trematodes of frogs, histochemical mechanism of egg shell formation
- Histochemistry, Parasite**
 Sood, P. P.; and Gupta, A. N., 1977, Publicaciones Espec. (4), Inst. Biol., Univ. Nac. Autonom. Mexico, 311-323
Glossimetre orientalis, histochemical localization of non-specific esterase, implications for lipid metabolism
- Histochemistry, Parasite**
 Stromberg, B. E.; and Nutting, W. B., 1973, Acarologia, v. 14 (4), 605-611
Demodex spp. (especially *D. caprae*) and 2 related genera, physical characteristics and chemistry of exoskeleton and pigment granules
- Histochemistry, Parasite**
 Telles de Jesus Filho, M.; and Miraglia, T., 1977, Acta Histochem., v. 59 (1), 160-167
Sarcocystis fusiformis cysts in ox heart, histochemical (primarily histoenzymologic) observations, implications for parasite metabolism, no inflammatory reactions found around cysts and enzymatic reactivity of muscle fibers near to cysts was not different from normal fibers
- Histochemistry, Parasite**
 Thompson, R. C. A.; Dunsmore, J. D.; and Hayton, A. R., 1979, Exper. Parasitol., v. 48 (1), 144-163
Echinococcus granulosus, secretory activity of adults in situ in the dog, histological, histochemical, and ultrastructural studies

- Histochemistry, Parasite**
Threadgold, L. T.; and Brennan, G., 1978, *Exper. Parasitol.*, v. 46 (2), 300-316
Fasciola hepatica, basal infolds and associated vacuoles of tegument: general and enzymatic histochemistry, osmotic behavior, theory outlining possible mode of operation of tegument as transporting epithelium
- Histochemistry, Parasite**
Vasilev, I.; Poliakova-Krusteva, O.; and Gorchilova, L., 1976, *Khelmintologiya, Sofiya*, v. 2, 42-49
Raillietina spp., enzyme identification and distribution in tegument, differences among species in degree of enzyme manifestation interpreted as due to localization of species in chick intestine
- Histochemistry, Parasite**
Venkata Rama Krishna, G.; Narsiah, J. V.; and Simha, S. S., 1979, *Current Sc.*, Bangalore, v. 48 (4), 183-184 [Letter]
Cotugnia sp., nervous system structure, acetylcholinesterase distribution, histochemical study
- Histochemistry, Parasite**
Waldrop, F. S.; Younker, T. D.; and Puchtler, H., 1979, *Histochemistry*, v. 63 (1), 1-6
Pneumocystis carinii, histochemical observations, selective coloration of membranes of honeycomb forms, simultaneous demonstration of honeycomb and cyst forms
- Histochemistry, Parasite**
Wharton, D. A., 1979, *Parasitology*, v. 78 (2), 145-154
Aspiculuris tetraptera, egg-shell, nomenclature of shell layers, structure and histochemistry of shell layers and uterine layers
- Histochemistry, Parasite**
Wharton, D. A., 1979, *Parasitology*, v. 79 (1), pp. 1-12
Hammerschmidtella diesingi, structure and histochemistry of egg-shell, gross morphology of reproductive system, cytoplasmic inclusions of oocyte, shell formation
- Histochemistry, Parasite**
Wharton, D. A., 1979, *Parasitology*, v. 79 (1), 13-28
Syphacia obvelata, structure and histochemistry of egg-shell, gross morphology of reproductive system, shell formation
- Histochemistry, Parasite**
Zdarska, Z., 1970, *Folia Parasitol.*, v. 17 (1), 31-47
Notocotylus attenuatus, cercaria, relationship of gland cells to layers of cyst wall of adolesearia, morphology, histochemistry
- Histochemistry, Parasite**
Zdarska, Z., 1971, *Folia Parasitol.*, v. 18 (1), 15-25
Moliniella anceps, larval stages, histology and histochemistry of cystogenic gland cells and cyst wall, participation of gland cells of cercaria in origin of layers of cyst wall of metacercaria
- Histochemistry, Parasite**
Zdarska, Z., 1971, *Folia Parasitol.*, v. 18 (2), 119-125
Philophthalmus sp., cercaria, histology and histochemistry of cystogenic gland cells, formation of tegument
- Histochemistry, Parasite**
Zdarska, Z., 1971, *Folia Parasitol.*, v. 18 (3), 207-213
Echinoparyphium aconiatum, larval stages, body tegument, histochemistry, morphology
- Histochemistry, Parasite**
Zhuchkova, N. I., 1974, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 24, 36-39
Ascaris suum, *Ascaridia galli*, catecholamine localization in nervous system
- Histochemistry, Parasite**
Zhuchkova, N. I.; and Shishov, B. A., 1979, *Zhurnal Obshch. Biol.*, v. 40 (2), 259-270
nematodes, catecholaminergic neurones, histochemical localization, stability in number and position suggests conservatism of morphological and chemical structure of nervous system
- Histology. [See also Morphology]**
- Histology**
Bogoiavlenskii, Iu. K., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 21, 5-11
micromorphological structure and function of hypodermis of various groups of nematodes, functions include: support of somatic musculature and nerves, production of cuticle, storage place for nutrients (fats and glycogen), and barrier against harmful substances
- Histology**
Gerasev, P. I., 1977, *Zool. Zhurnal*, v. 56 (12), 1757-1765
Dactylogyrus extensus, morphology and histology, with particular emphasis on glands
- Histology**
Khanum, Z.; and Farooq, M., 1977, *Biologia*, Lahore, v. 23 (1), 7-16
Contracaecum synpapillus, histological study
- Histology**
Nahif, A. A.; and Madel, G., 1975, *Ang. Parasitol.*, v. 16 (4), 220-232
Przhevalskiana silenus, histology of intestinal tract of 3 larval stages described
- Histology**
Nassi, H.; and Dupouy, J., 1977, *Bull. Soc. Zool. France*, v. 102 (3), 243-249
Subulura sp., description, histology of encapsulation of third stage larvae, role of host regenerating crypt in capsule formation, defense reaction mechanism of host
- Histology**
Rousset, V.; et al., 1978, *Ztschr. Parasitenk.*, v. 55 (1), 73-89
Chondracanthus angustatus reproductive apparatus, anatomy, histology, and spermiogenesis
- Histology**
Webb, R. A.; and Davey, K. G., 1975, *Canad. J. Zool.*, v. 53 (5), 661-677
Hymenolepis microstoma, metacystode, central nervous system, gross anatomy and histology
- Histology**
Zdarska, Z., 1971, *Folia Parasitol.*, v. 18 (1), 15-25
Moliniella anceps, larval stages, histology and histochemistry of cystogenic gland cells and cyst wall, participation of gland cells of cercaria in origin of layers of cyst wall of metacercaria

Histology

- Zdarska, Z., 1971, *Folia Parasitol.*, v. 18 (2), 119-125
Philophthalmus sp., cercaria, histology and histochemistry of cystogenic gland cells, formation of tegument

Histopathology. See Pathology.History of parasitology. See Parasitology, History.Holland. See Netherlands.Hormones. [See also Biochemistry; Glands; Metabolism; Pheromones]

Hormones

- Bailenger, J.; et al., 1972, *Therapeutique*, v. 48 (2), 117-128
 dangers of cortisone therapy in the presence of human parasitic pathology, clinical review

Hormones

- Bailenger, J.; and Souby, J., 1979, *Ann. Parasitol.*, v. 54 (2), 227-235
Strongyloides ratti-infected rats, variations in corticosteronemia during course of infection, importance of time of sampling, possible relationship to worm expulsion

Hormones

- Barrabes, A.; Duong, T. H.; and Combescot, C., 1979, *Compt. Rend. Soc. Biol.*, Paris, v. 173 (1), 153-156
Schistosoma mansoni, castrated female golden hamsters, effect of testosterone, estradiol, and progesterone on infection

Hormones

- Charoenlarp, P.; Vanijanonta, S.; and Chatpanyaporn, P., 1979, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 10 (1), 127-131
falciparum malaria, humans, prednisolone administered with quinine sulfate did not increase red cell survival

Hormones

- Christensen, C. M.; and Dobson, R. C., 1979, *J. Kansas Entom. Soc.*, v. 52 (2), 386-391
Haematobia irritans, attraction to Angus bulls and steers (testosterone propionate treated vs. nontreated), positive relationship between attractance and sebaceous gland numbers and cell numbers

Hormones

- Cummins, L. J.; and Callinan, A. P. L., 1979, *Vet. Rec.*, v. 104 (4), 77-78
Ostertagia ostertagi in cattle, levamisole, combined treatment with human chorionic gonadotrophin did not improve anthelmintic activity against inhibited 4th stage larvae and lessened effectiveness against adults and developing larvae: western Victoria, Australia

Hormones

- Davey, K. G., 1979, *Internat. J. Parasitol.*, v. 9 (2), 121-125
Phocanema decipiens, molting, role of water uptake: dynamics of water movement in nematode activated by exposure to juvenile hormone vs. that in unactivated nematode

Hormones

- Delbecque, J. P.; Diehl, P. A.; and O'Connor, J. D., 1978, *Experientia*, v. 34 (10), 1379-1381
Amblyomma hebraeum, presence of ecdysone and ecdysterone in nymphs, supports hypothesis that in ticks ecdysteroids are involved in hormonal control of moulting

Hormones

- Del Negro, G., 1979, *AMB, Rev. Ass. Med. Brasil.*, v. 25 (3), 113-116
 evaluation of the use of corticosteroids in infectious and parasitic diseases, generally contraindicated in parasitic diseases such as toxoplasmosis, malaria, amoebiasis, pneumocystosis

Hormones

- Dembinski, A. B.; Johnson, L. R.; and Castro, G. A., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 854-859
Trichinella spiralis-infected dogs, inhibitory action of secretin on gastrin-stimulated gastric acid and pepsin secretion is compromised

Hormones

- El-Hennawy, M.; and Abd-Rabbo, H., 1978, *J. Trop. Med. and Hyg.*, v. 81 (4), 71-73
 human hepatic amoebiasis, previous history of corticosteroid therapy as a precipitating factor in abscess formation

Hormones

- Gijsbers, A. J.; et al., 1978, *Brit. Med. J.* (6148), v. 2, 1372-1373 [Letter]
Entamoeba histolytica, activation of occult amoebiasis in 19-year-old Vietnamese man being treated for glomerulonephritis with prednisolone: Australia, had been in refugee camp in Thailand

Hormones

- Hall, R. D.; Gross, W. B.; and Turner, E. C., jr., 1978, *Poultry Science*, v. 57 (4), 1088-1090
Ornithonyssus sylviarum in roosters receiving varying doses of estradiol, slight increase in mite resistance, compared to mite resistance in untreated pullets, results indicate that estrogen alone may not be responsible for difference in mite susceptibility between male and female birds

Hormones

- Hall, R. D.; Gross, W. B.; and Turner, E. C., jr., 1979, *Vet. Parasitol.*, v. 5 (2-3), 287-297
Ornithonyssus sylviarum, roosters (exper.), increased host resistance in response to high levels of social interaction or dietary administration of steroids

Hormones

- Hopkins, D. E.; and Chamberlain, W. F., 1978, *J. Econom. Entom.*, v. 71 (1), 25-26
Bovicola limbatus, 3rd instars, relationship between inhibition of ecdysis and time and quantity of ingestion of diflubenzuron (inhibitor of cuticle deposition), inhibition of ecdysis increased progressively as age of nymphs increased, timing of treatment important for control

Hormones

- Khalil, G. M.; and Shanbaky, N. M., 1976, *J. Insect Physiol.*, v. 22 (12), 1659-1663
Argas arboreus, hormonal control of diapause

Hormones

- Khan, Z. I.; and De Rycke, P. H., 1977, Ztschr. Parasitenk., v. 52 (3), 267-274
Hymenolepis microstoma in mice treated with cortisone, increased weight and glycogen content of worms seems to be immunosuppressive effect rather than hormonal action; cortisone in vitro produces no change in worm weight; infection by 30 worms provokes rejection process which can be partially suppressed by cortisone

Hormones

- Kittas, C.; and Henry, L., 1979, Clin. and Exper. Immunol., v. 36 (1), 16-23
Toxoplasma gondii, guinea pigs, effect of gonadectomy and oestrogen administration on development of lesions in non-lymphoid organs, results suggest that cell-mediated immunity is important in both pathogenesis of and resistance to non-lymphoid toxoplasmosis

Hormones

- Kittas, C.; and Henry, L., 1979, J. Path., v. 127 (3), 129-136
Toxoplasma gondii, mice, effects of gonadectomy and oestrogen administration on response of lymph-node post-capillary venules to infection, possible contribution to differences in immune response between male and female hosts

Hormones

- Listov, M. V., 1977, Entom. Obozr., v. 56 (4), 731-735
Nosema whitei, Adelina tribolii in Tribolium destructor (nat. and exper.) and T. confusum (exper.), % mortality, effect on metamorphosis, destruction of host fat body causes hormone imbalance

Hormones

- Lyons, E. T.; and Keyes, M. C., 1978, J. Parasitol., v. 64 (3), 454-458
Uncinaria lucasi in Callorhinus ursinus, differential infectivity in pups of parasitic 3rd stage larvae from belly tissues of bulls and bachelors vs. those from pregnant cows, also appears to be relationship between size of larvae and their maturation capability, pregnancy hormones may provide explanation

Hormones

- McDaniel, R. S. II; and Oliver, J. H., jr., 1978, J. Parasitol., v. 64 (3), 571-573
Dermacentor variabilis nymphs, effects of insect growth regulators on certain aspects of developmental and reproductive biology

Hormones

- Mankau, S. K., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (6), 379-384
Trypanosoma lewisi, white rats (exper.), sex difference in susceptibility to infection demonstrated, effect of gonadectomy and heterologous gonadal hormone treatment

Hormones

- Markowitz, S. M.; et al., 1978, Am. J. Path. (436), v. 92 (3), 733-743
Acanthamoeba castellanii, mice (exper.), pretreated with methylprednisolone or tetracycline, increased host mortality due to depressed host immunity; potentially pathogenic role for naturally occurring Acanthamoeba sp. in immunosuppressed humans

Hormones

- Mascaro-Lazcano, C.; Osuna-Carrillo, A.; and Guevara-Pozo, D., 1978, Rev. Iber. Parasitol., v. 38 (1-2) 427-433
Trichinella spiralis, albino mice, influence of hormones on host resistance to infection

Hormones

- Niedernostheide, F.; et al., 1979, Zentralbl. Vet.-Med., Reihe B, v. 26 (7), 527-539
Ascaris suum, rats (exper.), effect of isoenergetic fat diets on resistance, immunological and endocrine parameters

Hormones

- Phares, C. K.; and Carroll, R. M., 1978, J. Parasitol., v. 64 (3), 401-405
effects of bovine pituitary growth hormone vs. Spirometra mansonioides plerocercoid growth factor on body growth and lipid composition in diabetic-hypophysectomized rats

Hormones

- Phares, C. K.; and Cook, D. E., 1978, J. Parasitol., v. 64 (3), 406-410
effects of bovine pituitary growth hormone vs. Spirometra mansonioides plerocercoid growth factor on metabolism of lymphoid tissue (thymus and spleen) in diabetic-hypophysectomized rats

Hormones

- Pinchin, R.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 322-323 [Letter]
Chagas' disease, slow-release juvenile hormone formulations for control of triatomine vectors

Hormones

- Pound, J. M.; and Oliver, J. H., jr., 1979, Science (4416), v. 206, 355-357
Ornithodoros parkeri, evidence of physiological role of juvenile hormone in acarine reproduction

Hormones

- Reynolds, G. W.; et al., 1979, Ann. Recherches Vet., v. 10 (2-3), 341-343
Ostertagia circumcincta-infected sheep (exper.), assay of tissue and serum gastrin, hypergastrinaemia

Hormones

- Rogers, W. P., 1978, Comp. Biochem. and Physiol., v. 61A (2), 187-190
5 spp. of nematodes, inhibitory action of juvenile hormone and its analogues on hatching of eggs, possible mode of action of the hormone as an inhibitor, implications for mechanism of egg hatching

Hormones

- Shchukin, P. I.; et al., 1978, Izvest. Akad. Nauk SSSR, s. Biol. (2), 291-297
ascarid metabolites administered to rats, corticosterone contents of adrenal glands and blood plasma changed; statistically significant variations in plasma corticosterone in both experimental and control rats, indicating influence of genotype

Hormones

- Shishova-Kasatochkina, O. A.; and Leutskaia, Z. K., 1979, [Biochemical aspects of the interrelationships of helminths and their hosts. Metabolism of proteins, vitamins, and steroids in the process of parasitization], 279 pp., illus.

Hormones

Steelman, S. L.; et al., 1971, Recent Progr. Hormone Research, v. 27, 97-120

Spirometra mansonoides, comparative study of sparganum growth factor (SGF) and growth hormone: growth-promoting properties, metabolic actions on bone and protein synthesis, effects on carbohydrate and lipid metabolism, source and physicochemical properties of SGF, development of resistance to SGF (result of neutralizing antibodies)

Hormones

Stuiver, P. C.; and Goud, T. J. L. M., 1978, Brit. Med. J. (6134), v. 2, 394-395
Entamoeba histolytica, possible hazards of administering corticosteroids to persons who may have amoebiasis, steroid therapy may result in acute amoebic dysentery or exacerbation of amoebiasis, case reports

Hormones

Sucupira, M. S.; and Pupo, A. de A., 1976, AMB, Rev. Ass. Med. Brasil., v. 22 (5), 154-161
Schistosoma mansoni, teenagers with delayed puberty and short stature, study showed no relationship between growth disorders and parasitic infections

Hormones

Sukkar, M. Y.; Ahmed, N. D.; and Omer, A. H. S., 1979, Ann. Trop. Med. and Parasitol., v. 73 (1), 45-49
Schistosomiasis, human bilharzial liver fibrosis, abnormal pattern of growth hormone release and low fasting blood glucose levels interpreted in terms of circulatory changes associated with infection

Hormones

Tiboldi, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 670-676
Schistosoma mansoni-infected mice, histopathological changes in ovaries in acute and chronic infections, pituitary hypofunction may contribute to pathological transformation of ovarian tissue

Hormones

Tiboldi, T.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 871-872
Schistosoma mansoni, mice, observations on ovarian functions during acute infections showed that estrus was present in some infected animals in spite of histopathological changes and decreased levels of progesterone in blood

Hormones

Tiboldi, T.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 873-875
Schistosoma mansoni, mice, morphology and function of adrenals in acute infection

Hormones

Verma, B. B.; and Sinha, B. P., 1978, Indian Vet. J., v. 55 (12), 995-998
Trypanosoma evansi, albino rats (exper.), effect of prednisolone 7 days before infection until death on course of disease

Hormones

Wilson, P. A. G.; Cameron, M.; and Scott, D. S., 1978, Parasitology, v. 76 (2), 221-227
Strongyloides ratti, virgin rats at different stages of oestrous cycle, no differences in mean intestinal worm burden, thus changes in hormonal environment of migrating larvae did not alter worms' destination or affect their potential for development, other possible sources of variability in experimental infections, 'exact dose' technique as corrective for some procedural errors

Host finding. See Host perception by parasites.

Host, Parasite-free. See Gnotobiotic animals.

Host, Paratenic. See Vectors, Mechanical.

Host, Transport. See Vectors, Mechanical.

Host-parasite relationships. [See also Adaptation]

Host-parasite relationships

Anderson, R. M., 1978, Parasitology, v. 76 (2), 119-157
 regulation of host population growth by parasitic species

Host-parasite relationships

Anderson, R. M.; and May, R. M., 1978, J. Animal Ecol., v. 47 (1), 219-247
 population models of host-parasite interactions, role of parasite in regulating host population growth

Host-parasite relationships

Bannister, L. H., 1979, Proc. Roy. Soc. London, s. B., Biol. Sc. (1155), v. 204, 141-163
intracellular Protista, taxonomic range, location within host cells, host species and host cell specificity, invasion of host cells, methods of evading intracellular destruction by lysosomes, nutrition, effects on structure and composition of host cells, exit from host cell, review

Host-parasite relationships

Butter, M. E., 1979, Bijdr. Dierk., Amsterdam, v. 48 (2), 141-155
Corallonoxia longicauda in *Meandrina meandrites*, occurrence and infestation rates in relation to depth, colony size, and environmental factors, parasite morphology, age of parasite and host, spatial distribution of parasite within colony, limited effect of parasite on host: S. W. and N. E. coasts of Curacao, Netherlands Antilles

Host-parasite relationships

Chang, K. P.; and Dwyer, D. M., 1978, J. Exper. Med., v. 147 (2), 515-530
Leishmania donovani/hamster macrophage interactions in vitro: cell entry, intracellular survival, and multiplication of amastigotes

Host-parasite relationships

da Cunha, A. B.; and Jurand, A., 1978, Arch. Protistenk., v. 120 (5), 235-254
Schneideria schneiderae in *Trichosia pubescens* (exper.), entry into and development in cells of intestinal caecum, host cell-symbiont interrelations, metabolic exchanges, symbiotic bacteria in cytoplasm of *Schneideria*, ultrastructural study

Host-parasite relationships

Damian, R. T., 1979, Host-Parasite Interfaces, 103-126
molecular mimicry in biological adaptation, host-parasite and other biological relationships, review

Host-parasite relationships

Holmes, J. C., 1979, Host-Parasite Interfaces, 27-46
biohelminth parasite populations and host community structure, theoretical review

Host-parasite relationships

Kisielewska, K., 1978, Kosmos, Warsaw (154), s. A, Biol., v. 27 (5), 493-516
ecological parasitology, relationships among host, parasite, and environment, terminology, methods of study, various international programs, extensive review

Host-parasite relationships

Kuperman, B. I., 1973, Lentochoyne chervi roda Triaenophorus--parazity ryb. Eksperimental'naiia sistematika, ekologiya [Tapeworms of the genus Triaenophorus--parasites of fish. Experimental systematics, ecology] 207 pp.
Triaenophorus, monographic review of morphology, life cycle, development, geographic distribution, interrelation with host and pathogenic role, host specificity, evolution, species formation; key to species, host list, synonymy, includes: *T. nodulosus* (Pallas, 1781); *T. amurensis* Kuperman, 1968; *T. stizostedionis* Miller, 1945; *T. crassus* Forel, 1868; *T. meridionalis* Kuperman, 1968; *T. orientalis* Kuperman, 1968

Host-parasite relationships

Lumsden, R. D., 1979, Host-Parasite Interfaces, 49-70
helminth parasitism, mammalian inflammatory response, review of morphological aspects of host-parasite interaction

Host-parasite relationships

McLaren, D. J.; et al., 1979, Parasitology, v. 79 (1), 125-139
Plasmodium knowlesi, interaction between malaria parasite and host erythrocyte, freeze fracture studies of internal cytoarchitecture of surface membranes

Host-parasite relationships

May, R. M.; and Anderson, R. M., 1978, J. Animal Ecol., v. 47 (1), 249-267
dynamics of model host-parasite associations, factors that tend to have a destabilizing influence: parasite induced reduction in host reproduction; effects of parasites reproducing directly inside their host; effects of time delays in parasite reproduction and transmission

Host-parasite relationships

Mitchell, G. F.; and Prowse, S. J., 1979, J. Parasitol., v. 65 (5), 820-822
Nematospiroides dubius, different consequences of infection in 3 different inbred strains of mice

Host-parasite relationships

Moulder, J. W., 1979, Host-Parasite Interfaces, 127-138
evolutionary origin of intracellular parasitism, speculative review

Host-parasite relationships

Nelson, W. A.; et al., 1975, J. Med. Entom., v. 12 (2), 143-166
ectoparasitic arthropods, physiologic relationships with hosts (life histories, distribution on host, feeding mechanisms, effect of nutrition and endocrine state of host, parasite toxins), broad review

Host-parasite relationships

Norval, R. A. I., 1975, Proc. 1. Cong. Entom. Soc. South. Africa, 195-201
host-tick interactions reviewed: tick feeding mechanism and innate and acquired host resistance; host specificity

Host-parasite relationships

Sankurathri, C. S.; and Holmes, J. C., 1976, Canad. J. Zool., v. 54 (10), 1742-1753
parasites and commensals (Oligochaeta and larval Digenea) of Physa gyrina in control area vs. area affected by thermal effluents, prevalence, seasonal changes, interactions (including ingestion of cercariae by oligochaete), ecological model: Lake Wabamun, Alberta

Host-parasite relationships

Shishova-Kasatochkina, O. A.; and Leutskaia, Z. K., 1979, [Biochemical aspects of the interrelationships of helminths and their hosts. Metabolism of proteins, vitamins, and steroids in the process of parasitization], 279 pp., illus.

Host-parasite relationships

Stutterheim, C. J., 1977, South African J. Sc., v. 73 (9), 281
Amblyomma hebraeum, Boophilus decoloratus, prey species parasitizing predator, Buphagus erythrorhynchus: Kruger National Park

Host-parasite relationships

Sudarikov, V. E., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 182-188
helminth life cycles, role of amphixeny (host having double function in life cycle) in their evolution, theoretical review

Host-parasite relationships

Timm, R. M.; and Cook, E. F., 1979, Am. Midland Naturalist, v. 101 (1), 211-217
Cuterebra fontinella on Peromyscus leucopus noveboracensis, mean infestation rate, host age, reduced size of reproductive organs in infected subadult males, no effect on adult male and female reproductive organs, parasite-host relationships are stable and parasite and host have evolved coadaptations and a tolerance for each other

Host-parasite relationships

Vasilev, I., 1976, Khelmintologiya, Sofia, v. 2, 32-41
host categories (obligatory, paratenic, and potential) and their role in helminth ontogenesis

Host-parasite relationships

Wrenn, W. J., 1974, J. Kansas Entom. Soc., v. 47 (2), 227-238
chiggers, host-parasite relationships, and ecological preferences: Douglas Lake region, northern Michigan

Host perception by parasites. [See also Attractants; Taxis]

Host perception by parasites

Camin, J. H.; and Drenner, R. W., 1978, *J. Parasitol.*, v. 64 (5), 905-909

Haemaphysalis leporispalustris, climbing behavior and host-finding of larval ticks, strato-orientation restricts tick's host spectrum to rabbits and ground-dwelling or feeding birds and has implications for tick dispersal

Host perception by parasites

Christensen, C. M.; and Dobson, R. C., 1979, *J. Kansas Entom. Soc.*, v. 52 (2), 386-391

Haematobia irritans, attraction to Angus bulls and steers (testosterone propionate treated vs. nontreated), positive relationship between attractance and sebaceous gland numbers and cell numbers

Host perception by parasites

Christensen, N. O., 1978, *Ztschr. Parasitenk.*, v. 57 (2), 155-162

Diplostomum spathaceum, *Hypoderaeum conoideum*, *Plagiorchidae* sp., *Notocotylus attenuatus*, labelling cercariae with radio-selenium by incubating host snails with radioisotope, no negative effects on cercariae, possible applications of technique; labelled *H. conoideum* for radioisotope assay of host-finding by measuring snail-bound radioactivity in *Helisoma duryi* after exposure to cercariae

Host perception by parasites

Christensen, N. O., 1979, *J. Helminth.*, v. 53 (1), 7-14

Schistosoma mansoni, various aquatic organisms can interfere with cercarial host-finding

Host perception by parasites

Coil, W. H., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 53-59

Fascioloides magna miracidia, scanning electron microscopy of penetration of snail *Fossaria bulimoides*, attraction, attachment, morphology of apical papilla and epidermal plates, shedding of cilia and epidermal plates

Host perception by parasites

Garben, A. F. M.; van Bronswijk, J. E. M. H.; and van Ebbenhorst Tengbergen, T., 1978, *Netherlands J. Zool.*, v. 28 (2), 193-205

Neotrombicula autumnalis, behaviour of unfed and feeding larvae (stability, movements, and sensory physiology of mite clusters; host finding and feeding), localization on host: the Netherlands

Host perception by parasites

Greenwood, M. T.; and Holdich, D. M., 1979, *J. Zool.*, London, v. 187 (1), 21-38

Ceratomyxus hirundinus hirundinus, *C. styx*, surface structure and cellular detail of sensillum, light, stereoscan, and transmission electron microscopy, possible modes of functioning

Host perception by parasites

Howell, F. G., 1975, *J. Med. Entom.*, v. 11 (6), 715-723

Argas cooleyi unfed adults, behavioral changes induced by host odor, breath (CO₂), and body temperature in relation to host-finding activities and provoking a feeding response

Host perception by parasites

James, C.; and Prah, S. K., 1978, *J. Helminth.*, v. 52 (3), 221-226

Schistosoma mansoni, *S. haematobium*, penetration efficiency and selective capacity of miracidia based on infection rates produced in *Bulinus pfeifferi* and *B. globosus* respectively, scanning capacity also compared in increasing volumes of water, over increasing horizontal distances, and in running water of different flow rates, effect of miracidial density, epidemiological implications

Host perception by parasites

Kunz, T. H., 1976, *J. Med. Entom.*, v. 12 (6), 631-636

Trichobius corynorhini on hibernating *Plecotus townsendii*, parasite distribution on host, frequency and levels of infestation in relation to host density and clustering behavior and sex, value of these adaptations

Host perception by parasites

Kurihara, T., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (1), 8-16

Reesimermis nielsenii, attraction of infective stage to *Culex pipiens molestus* larvae, laboratory conditions

Host perception by parasites

Mason, P. R., 1979, *J. Parasitol.*, v. 65 (5), 819-820

ammonia excretion by *Biomphalaria pfeifferi* (natural host for *Schistosoma mansoni*) almost twice that excreted by *Bulinus globosus*, possible mechanism for host selection by *S. mansoni* miracidia

Host perception by parasites

Mason, P. R.; and Fripp, P. J., 1977, *Ztschr. Parasitenk.*, v. 53 (3), 287-295

Schistosoma mansoni miracidia, effect of sugars, fatty acids, amino acids, and snail excretion products on activity, some effects concentration dependent and pH dependent; possible role for chemo-klinokinetic behavior patterns in miracidial host location

Host perception by parasites

Nilsson, A.; and Lundqvist, L., 1978, *Oikos*, v. 31 (3), 313-322

Ixodes ricinus larvae, overdispersed distribution on small mammal species in field during spring and autumn, host sex, feeding success on different host species under laboratory conditions, orientation, movements, and spatial frequency distribution on host body: Kullaberg, southern Sweden

Host perception by parasites

Ørnbjerg Christensen, N.; Nansen, P.; and Frandsen, F., 1978, *J. Helminth.*, v. 52 (1), 61-67

Fasciola hepatica, host-finding capacity of miracidia in relation to time, number of miracidia per snail (*Lymnaea truncatula*), and several physico-chemical environmental factors (light/dark, water volume, pH, turbidity, salinity)

Host perception by parasites

- Prechel, D. P.; and Nollen, P. M., 1979, J. Parasitol., v. 65 (3), 446-450
Megalodiscus temperatus, effects of miracidial aging and dilution of snail-conditioned water on responses of miracidia

Host perception by parasites

- Rechav, Y.; et al., 1978, Nature, London (5678), v. 275, 310-311
Ixodes neitzi, attraction of adult ticks to twigs marked by *Oreotragus oreotragus* (klipspringer antelope), first report of tick species locating its mammalian host by detecting specific chemical compound(s) used by host as communicative marking signal thus increasing probability of survival in that particular habitat

Host perception by parasites

- Roberts, T. M.; et al., 1978, J. Parasitol., v. 64 (2), 277-282
Schistosoma mansoni, quantitative assay for testing behavioral responses of miracidia to chemicals, used to screen chemicals for miraxone-like activity and to test for inhibitors of miracidial responses to stimulants

Host perception by parasites

- Schmidt, J.; and All, J. N., 1978, Environment. Entom., v. 7 (4), 605-607
Neoplectana carpocapsae dauerlarvae, attraction to various insect larvae appears to be chemical in nature, response to larvae of *Galleria mellonella* is a function of distance

Host perception by parasites

- Semenov, O. Iu., 1976, Vestnik Leningrad. Univ. (15), Biol. (3), 26-32
Philophthalmus rhionica, miracidium chemoreception system functions to differentiate specific host *Melanopsis praemorsa* from other snail species, not for searching, "inductor" substance(s) localized in snail mucus initiates recognition by miracidium

Host perception by parasites

- Sutherst, R. W.; et al., 1978, Austral. J. Zool., v. 26 (1), 159-174
Boophilus microplus, cattle, experimental and theoretical studies on rates of host finding, conceptual model of the host-finding component

Host resistance. See Resistance, Host.

Host specificity. See Specificity, Host.

Humidity. [See also Climate and weather; Desiccation; Water]

Humidity

- Bejsovec, J., 1978, Ang. Parasitol., v. 19 (2), 76-85
Eimeria phasiani and *E. colchici* in *Phasianus colchicus*, dynamics of incidence dependent upon host biotope, host movements, season, temperature, and humidity: Mittelbohlen

Humidity

- Brown, S. J.; Bohnsack, K. K.; and Atkins, M. D., 1979, J. Kansas Entom. Soc., v. 52 (2), 258-263
Dermacentor variabilis, nymphs, effects of acclimation humidities on survival and subsequent attachment and engorgement on guinea pigs

Humidity

- Callinan, A. P. L., 1978, Internat. J. Parasitol., v. 8 (6), 453-456
Trichostrongylus axei, ecology of free-living stages: development and survival of eggs and larvae, corresponding meteorological data: Pastoral Research Institute, Hamilton, Victoria, Australia

Humidity

- Callinan, A. P. L., 1979, Internat. J. Parasitol., v. 9 (2), 133-136
Trichostrongylus vitrinus, development and survival of free-living stages, some corresponding meteorological data: western Victoria, Australia

Humidity

- Doube, B. M.; and Kemp, D. H., 1979, Internat. J. Parasitol., v. 9 (5), 449-454
Boophilus microplus, attachment and survival of larvae on skin slices in vitro, influence of temperature, relative humidity, and host factors

Humidity

- Gerasimova, N. G.; and Gavrikova, E. A., 1970, Parazitologiya, Leningrad, v. 4 (4), 385-388
Xenopsylla skrjabini, *X. nuttalli*, longevity of males and females at different temperatures and humidities under laboratory conditions

Humidity

- Hafez, M.; and Hilali, M., 1978, Vet. Parasitol., v. 4 (3), 275-288
Hippobosca longipennis, biology in Egypt, laboratory observations: adult emergence, feeding mechanism, frequency and amount of blood meal, tolerance to starvation, sexual maturity, mating behavior, sex ratio, intra-uterine larval development, larviposition and description of 3rd larval stage, adult longevity and fecundity, description of pupa, pupal duration (effect of temperature, relative humidity, and host)

Humidity

- Hafez, M.; Hilali, M.; and Fouda, M., 1977, Ztschr. Ang. Entom., v. 83 (4), 426-441
Hippobosca equina, field-collected and laboratory-reared on guinea pigs, biology, adult males vs. females (feeding, longevity of starved adults in 2 seasons, longevity of normal adults and fecundity in 2 seasons, effect of presence of males on fecundity of females, sexual maturation, sex ratio); larval stage (larviposition, description, and duration of 3rd larval stage; seasonal intra-uterine larval development); pupal stage (duration, effect of temperature and humidity)

Humidity

- Healy, J. A., 1979, Genetica, v. 50 (1), 19-30
Ixodes ricinus, polymorphism at α -glycerophosphate dehydrogenase locus detected by electrophoresis, allele and genotype frequency patterns in natural tick populations, physiological and behavioral correlates of alternate genotypes (susceptibility to desiccation, locomotory efficiency), sex and locality differences, results provide evidence that polymorphism serves adaptive function and suggest factors that may be involved in selective maintenance of variability in natural populations: Ireland

Humidity

- Heath, A. C. G., 1979, *Internat. J. Parasitol.*, v. 9 (1), 33-39
Haemaphysalis longicornis, *Ixodes holocyclus*, and *Rhipicephalus sanguineus* eggs, temperature and humidity preferences

Humidity

- Iurgenson, I. A.; and Teplykh, V. S., 1971, *Parazitologiya*, Leningrad, v. 5 (2), 119-127
Ctenophthalmus orientalis, preimaginal phases, effect of temperature and relative humidity on survival and development

Humidity

- Kimura, S.; and Shimizu, A., 1978, *Japan. J. Vet. Sc.*, v. 40 (3), 357-359
Fasciola gigantica, survival of metacercariae on rice plants exposed to various room temperatures and relative humidities for varying lengths of time, infectivity to rabbits (exper.), significance in use of rice stems as cattle feed

Humidity

- Knapp, F. W.; et al., 1979, *Ann. Entom. Soc. Am.*, v. 72 (3), 331-333
Gasterophilus intestinalis 3rd instars artificially removed from stomachs of horses at various times of year, viability and maturation potential, effect of holding temperatures, humidity, and instar maturity on rate of development and percent pupation and eclosion

Humidity

- Kosminskii, R. B.; et al., 1979, *Vestnik Zool. Akad. Nauk Ukrainsk. SSR, Inst. Zool.* (2), 48-53
Amphipsylla rossica, ecology, field and laboratory studies: feeding, reproduction, development, survival, and longevity under various conditions of temperature and humidity; age composition and physiological state of populations in different months; abundance on *Microtus arvalis* and in its nests and burrow entrances in different months: Transcaucasian highlands

Humidity

- Nath, S., 1978, *Experientia*, v. 34 (5), 580-582
Strongyloides papillosus, effect of relative humidity on eggs and larvae

Humidity

- Nwosu, A. B. C., 1978, *Bull. Animal Health and Prod. Africa*, v. 26 (1), 49-53
Ancylostoma tubaeforme, eggs and third-stage larvae, survival of desiccation under defined relative humidities at high temperatures in the laboratory

Humidity

- Okulova, N. M., 1978, *Ekologiya, Sverdlovsk* (2), 44-48
 ixodid ticks, vertical and horizontal movements in forest conditions, dependent upon air temperature and humidity

Humidity

- Orichova, M.; Osman, O. M.; and Ali, A. A., 1978, *Bull. Animal Health and Prod. Africa*, v. 26 (4), 321-328
Argas persicus, distribution in poultry farms, egg and larval development studied at various humidities: Khartoum Province, Sudan

Humidity

- Osipova, N. Z., 1974, *Entom. Issled. Kirgizii*, 98-100
Steatonyssus musculi, influence of temperature and humidity on viability

Humidity

- Patrick, C. D.; and Hair, J. A., 1979, *Ann. Entom. Soc. Am.*, v. 72 (2), 308-312
Amblyomma americanum, oviposition behavior and larval longevity in 4 different habitats, preoviposition time and egg incubation temperature dependent

Humidity

- Petrelli, G.; and Crestini, A. M., 1976, *Parassitologia*, v. 18 (1-3), 85-94
Ixodes ricinus, *Hyalomma marginatum*, effect of different combinations of temperature and humidity on oviposition

Humidity

- Prieto, R.; Cueto, J.; and Rivera, E., 1978, *Rev. Cubana Cien. Vet.*, v. 9 (1), 15-23
Gasterophilus spp., horses, monthly dynamics, influence of different climatic factors: Havana province, Cuba

Humidity

- Raizada, R. N.; and Nagar, S. K., 1979, *Indian J. Animal Sc.*, v. 49 (8), 622-628
Boophilus microplus, abundance and distribution in relation to environmental conditions; site preferences for feeding on cows and buffalo: Uttar Pradesh

Humidity

- Sood, M. L.; and Kaur, C., 1976, *Riv. Parassitol.*, Roma, v. 37 (1), 13-33
Haemonchus contortus utkalensis in goats, vulvar configurations, 17 variants identified among 3 phenotypes, seasonal occurrence in relation to temperature and humidity, order of dominance is knobbed > linguiform > smooth except in July when it is knobbed > smooth > linguiform: Ludhiana, India

Humidity

- Soroczan, W., 1977, *Acta Parasitol. Polon.*, v. 24 (20-27), 259-267
Strongyloides stercoralis, life cycle, larval survival and development under different conditions of temperature, humidity, and pH in soil, water, feces, hogwash, and cow dung, potential for transmission under climatic conditions of Poland

Humidity

- Stoianov, P.; et al., 1978, *Vet. Med. Nauki*, v. 15 (8), 105-114
Eimeria tenella, broiler chickens, varied temperature and moisture regimes, blood biochemistry, host resistance, efficacy of pancloxin plus

Humidity

- Tukahirwa, E. M., 1976, *Bull. Entom. Research*, v. 66 (2), 301-312
Rhipicephalus appendiculatus, temperature, humidity, and vegetation, effects on development and survival

Humidity

- Vasil'eva, I. S., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (2), 204-209
Ornithodoros tartakovskyi, summer distribution in porcupine or terrapin burrows, temperature and humidity conditions: southern Tadzhikistan

Humidity

- Vivo Rodriguez, R., 1977, Noticias Neosan (186), v. 35, 35-38, 41-43
coccidiosis, lambs, excretion and development of oocysts, humidity of bedding, and growth of hosts

Humidity

- Wharton, D. A., 1979, Exper. Parasitol., v. 48 (3), 398-406
Ascaris lumbricoides, eggs, effect of humidity on embryonic development, rate of water loss during desiccation, effect of temperature on water loss

Humidity

- Yamaura, H., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (2), 80-86
Toxoplasma oocysts, No. 1 and Fukaya strains, effects of low temperature and dryness on viability

Humidity

- Zolotova, S. I.; and Afanas'eva, O. V., 1971, Parazitologiya, Leningrad, v. 5 (4), 364-368
Ctenophthalmus dolichus, rate of development in relation to temperature and humidity

Humidity

- Zolotova, S. I.; and Iakunin, B. M., 1973, Parazitologiya, Leningrad, v. 7 (1), 24-30
Pulex irritans, rate of development under different experimental conditions of temperature and humidity

Hungary

- Molnar, K., 1970, Magy. Allatvilaga (100), v. 2 (4), 75 pp.
Monogenea of Hungary, keys to superfamilies, families, genera, and species

Hybridization

- Britov, V. A., 1977, Genetika, v. 13 (6), 1025-1029
Trichinella, 4 spp., hybridization experiments to determine degree of genetic relationship

Hybridization

- Carney, W. P.; et al., 1977, Proc. Helminth. Soc. Washington, v. 44 (2), 150-155
Schistosoma incognitum, description, distribution, zoonotic potential and possible hybridization with S. japonicum: Central Sulawesi, Indonesia

Hybridization

- Frandsen, F., 1978, J. Helminth., v. 52 (1), 11-22
Schistosoma intercalatum, results of hybridization between different strains from Cameroun and Zaïre

Hybridization

- Le Jambre, L. F., 1979, Internat. J. Parasitol., v. 9 (5), 455-463
Haemonchus contortus, Haemonchus placei, hybridization experiments

Hybridization

- Southgate, V. R., 1978, Ztschr. Parasitenk., v. 56 (2), 183-193
Schistosoma intercalatum, morphology of cercarial glands; aggregates of cercariae formed by adhesive post-acetabular gland secretions, physical factors triggering aggregation behavior and impairing invasion of final host; hybridization with S. haematobium and fate of hybrids among natural populations; hypotheses on cercarial aggregation behavior and natural hybridization as factors limiting distribution of S. intercalatum

Hybridization

- Stafford, E. E.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 149-150
Schistosoma japonicum, Schistosoma incognitum, heterologous mating observed in experimentally infected rodents, implications of hybridization in increasing range of intermediate and definitive hosts

Hybridization

- Suswillo, R. R.; et al., 1978, Parasitology, v. 77 (2), 153-160
Brugia pateri, B. pahangi, sub-periodic B. malayi, these 3 species are able to hybridize but fail to produce fertile offspring because of male sterility, little doubt that they are not only morphological but also biological species

Hybridization

- Thomas, C.; and Prasad, R. S., 1978, Experientia, v. 34 (11), 1440-1441
Xenopsylla astia, populations from different localities, differences in chromosome numbers, morphological differences; sterility in hybrids between the two populations: Bombay; Trivandrum

Hybridomas. See Immunity, Monoclonal antibodies.

Hydrogen ion concentration

- Bingham, A. K.; et al., 1979, Exper. Parasitol., v. 47 (2), 284-291
Giardia sp., excystation in vitro, effects of temperature, pH, time, and incubation medium; eosin exclusion and excystation compared as methods of determining cyst viability, effect of temperature on cyst viability

Hydrogen ion concentration

- Bingham, A. K.; and Meyer, E. A., 1979, Nature, London (5694), v. 277, 301-302
Giardia, excystation in acidic solutions, pattern of trophozoite emergence during excystation, method for routine in vitro induction of excystation, establishment of in vitro axenic cultures from excysted trophozoites

Hydrogen ion concentration

- Chen, S. N.; and Howells, R. E., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 473-486
Brugia pahangi, in vitro cultivation in variety of culture systems, effect of temperature and pH on survival of infective stage larvae in vitro, growth and development of larvae in vitro and in vivo, effect of CO₂ on infective larvae in vitro, growth and development of early mammalian stages in vitro, electron microscope observations

Hydrogen ion concentration

Christie, M. G.; et al., 1978, J. Comp.

Path., v. 88 (2), 157-165

Haemonchus contortus, fistulated or non-fistulated sheep, acquired resistance to repeated daily doses of 10,000 infective larvae, no association of resistant state with raised abomasal pH, histology of mucosa after prolonged exposure

Hydrogen ion concentration

Do Duong Thai; Pham Hoang The; and Pham Ngoc Thai, 1971, Rev. Med., Hanoi, 5-9

Ascaris lumbricoides, in vitro study suggests variations in pH of host intestine may be etiologic cause of parasite migration to bile ducts or of intestinal obstructions

Hydrogen ion concentration

Dutta, G. P.; and Narain, L., 1978, Indian J. Exper. Biol., v. 16 (7), 838-840

Entamoeba histolytica, influence of pH on amoebicidal activity of 6 systemically active amoebicides against axenically grown parasites, results indicate that acidic pus in amoebic liver abscesses may account for some therapeutic failures

Hydrogen ion concentration

Fetterer, R. H.; et al., 1978, Exper. Parasitol., v. 46 (1), 59-71

Schistosoma mansoni, physical and chemical factors affecting mechanical properties of adult male musculature in vitro (incubation media, buffers, temperature, osmolality, pH, ions), improvements in system for recording motor activity; results indicate that *S. mansoni* musculature is similar to smooth muscle found in mammals

Hydrogen ion concentration

Krivenko, V. V., 1979, Gig. i Sanitariia (4), 80-81

Opisthorchis eggs, survival in water and soil, influence of oxygen, chloride and hydrogen ions: Tiumensk region, Tiumensk oblast

Hydrogen ion concentration

Kunstyr, I.; and Ammerpohl, E., 1978, Lab. Animals, v. 12 (2), 95-97

Spiroplasma muris, faecal cysts, resistance to physical and chemical factors tested, data may be useful for control of infection in rodents and for cryopreservation of parasite

Hydrogen ion concentration

Lazdynia, M. A.; and Grinberga, M. A., 1978, Ang. Parasitol., v. 19 (4), 202-207

Ascaridia galli, eggs cultured in acid medium, neutralization of culture medium prior to experimental infection in chickens increased infectivity and establishment of larvae in host

Hydrogen ion concentration

Major, J. R., jr.; and Ruff, M. D., 1978, Exper. Parasitol., v. 45 (2), 234-240

Eimeria spp., effects of coccidiosis on digestive capacity (amylase) of broiler chickens, changes in pancreatic, luminal, and surface-bound amylolytic activity, reduction in amylolytic activity as pH went below 5.0

Hydrogen ion concentration

Majumdar, G., 1969, Atas Soc. Biol. Rio de Janeiro, v. 12 (4), 185-186

Africanus bufonis, in vitro survival with different pH values and at different temperatures

Hydrogen ion concentration

Mapes, C. J.; and Coop, R. L., 1971, J. Comp. Path., v. 81 (4), 479-492

Haemonchus contortus chemically terminated or concurrent with *Nematodirus battus* in lambs lowered reproductive capacity and inhibited development of *N. battus*, results consistent with density-dependent physico-pharmacological mechanism of population control involving changes in host alimentary physiology (abomasal pH and Na⁺ concentration)

Hydrogen ion concentration

Mason, P. R.; and Fripp, P. J., 1977, Ztschr. Parasitenk., v. 53 (3), 287-295

Schistosoma mansoni miracidia, effect of sugars, fatty acids, amino acids, and snail excretion products on activity, some effects concentration dependent and pH dependent; possible role for chemo-klinokinetic behavior patterns in miracidial host location

Hydrogen ion concentration

Mettrick, D. F.; Budziakowski, M. E.; and Podesta, R. B., 1979, Canad. J. Physiol. and Pharmacol., v. 57 (8), 882-886

Moniliformis dubius, net fluxes of electrolytes in infected rat intestine

Hydrogen ion concentration

Michel, R.; and Hohmann, R., 1979, Ztschr. Parasitenk., v. 60 (2), 123-133

Entamoeba histolytica, attachment to glass surfaces at different temperatures and pH values and in presence of cytochalasin B, colchicine, and vinblastine

Hydrogen ion concentration

Moncol, D. J.; and Triantaphyllou, A. C., 1978, J. Parasitol., v. 64 (2), 220-225

Strongyloides ransomi, factors influencing sex expression and developmental pattern of progeny of parasitic females: appearance of males attributed to effect of host immunity, physiological ageing of parasitic females, or both, sex determined prior to hatching; cultural conditions (pH, culture substrate) influenced direction of development of female rhabditoid larvae

Hydrogen ion concentration

Nijhout, M. M.; and Carter, R., 1978, Parasitology, v. 76 (1), 39-53

Plasmodium gallinaceum, gamete development, quantification of gamete development, changes in pH and pCO₂ during gametogenesis, suppression and recovery of exflagellation, bicarbonate requirement for emergence and exflagellation, regulation of gametogenesis by pH

Hydrogen ion concentration

Nollen, P. M.; Samizadeh-Yazd, A.; and Snyder, D. E., 1979, J. Parasitol., v. 65 (5), 772-776

Philophthalmus spp., longevity and hatchability of miracidia, effects of salinity, pH, and temperature

Hydrogen ion concentration

Nwosu, A. B. C., 1978, *Ztschr. Parasitenk.*, v. 56 (3), 243-249

Ancylostoma tubaeforme, free-living phase, roles of temperature, pH, salinity, and lipid content in development

Hydrogen ion concentration

Nwosu, A. B. C., 1979, *J. Helminth.*, v. 53 (3), 223-228

Ancylostoma tubaeforme, 3rd stage infective larvae, relationship between neutral lipid depletion and longevity/survival, effect of various environmental stresses (temperature, pH, anaerobiosis)

Hydrogen ion concentration

Ørnbjerg Christensen, N.; Nansen, P.; and Frandsen, F., 1978, *J. Helminth.*, v. 52 (1), 61-67

Fasciola hepatica, host-finding capacity of miracidia in relation to time, number of miracidia per snail (*Lymnaea truncatula*), and several physico-chemical environmental factors (light/dark, water volume, pH, turbidity, salinity)

Hydrogen ion concentration

Parshad, V. R.; and Guraya, S. S., 1978, *Vet. Parasitol.*, v. 4 (2), 111-120

4 helminth spp., comparison of phosphatases, effects of pH, various chemicals, and some anthelmintics on enzyme activity, anthelmintics may affect absorptive process in worms by virtue of their effect on phosphatase system at absorptive surfaces

Hydrogen ion concentration

Petersen, J. J., 1979, *J. Nematol.*, v. 11 (1), 105-106

Romanomermis culicivora, effect of pH on infectivity to *Culex pipiens quinquefasciatus*

Hydrogen ion concentration

Platzer, E. G.; and Stirling, A. M., 1978, *Proc. and Papers 46. Ann. Conf. Calif. Mosquito and Vector Control Ass. (Yosemite, California, Jan. 29-Feb. 1)*, 87-88

Romanomermis culicivora, modified rearing procedures, pH change

Hydrogen ion concentration

Rao, U. S. B.; Gajanana, A.; and Rajagopalan, P. K., 1979, *Indian J. Med. Research*, v. 69, 423-427

Romanomermis sp., tolerance of preparasitic nemas and adults to different pH and salinity, laboratory and field trials, limited utility as biological agent in polluted water

Hydrogen ion concentration

Soroczán, W., 1977, *Acta Parasitol. Polon.*, v. 24 (20-27), 259-267

Strongyloides stercoralis, life cycle, larval survival and development under different conditions of temperature, humidity, and pH in soil, water, feces, hogwash, and cow dung, potential for transmission under climatic conditions of Poland

Hydrogen ion concentration

Srivastava, M.; and Gupta, S. P., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 61-68

Isoparorchis hypselobagri adults, in vitro survival in various salt solutions and with addition of various sugars; carbohydrates absorbed through cuticle, pH 9 optimum

Hydrogen ion concentration

Swift, B. L.; and Paumer, R. J., 1978, *Theriogenology*, v. 10 (5), 395-403

Anaplasma marginale, heifers in third trimester of gestation (exper.), fetus and dam arterial blood gases and pH measured, death of fetus following progressive parasitic anemia in dam is attributed to fetal anoxia

Hygiene. See Sanitation and hygiene.

Hyperparasitism

Canning, E. U.; Higby, G. C.; and Nicholas, J. P., 1979, *Parasitology*, v. 79 (3), 381-392

Nosema eurytremae, pathogenicity to *Fasciola hepatica* in *Lymnaea truncatula*

Hyperparasitism

Ceron, C. R.; et al., 1979, *J. Protozool.*, v. 26 (3), 479-483

Trypanosoma cruzi, *Crithidia deanei*, aposymbiotic *C. deanei*, purine metabolism

Hyperparasitism

Chang, G. N., 1977, *J. Chinese Soc. Vet. Sc.*, v. 3 (2), 27-30

Ascaris lumbricoides, embryonated eggs, isolation of *Escherichia coli*

Hyperparasitism

Cheong, W. H.; Rajamanikam, C.; and Mahadevan, S., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (3), 456-458

Rhipicephalus sanguineus, naturally parasitized by small chalcid wasp (*Hunterellus hookeri*): Petaling Jaya, Peninsula Malaysia

Hyperparasitism

da Cunha, A. B.; and Jurand, A., 1978, *Arch. Protistenk.*, v. 120 (3), 233-254

Schneideria schneideriae in *Trichosia pubescens* (exper.), entry into and development in cells of intestinal caecum, host cell-symbiont interrelations, metabolic exchanges, symbiotic bacteria in cytoplasm of *Schneideria*, ultrastructural study

Hyperparasitism

Dhillon, M. S.; and Platzer, E. G., 1978, *Proc. and Papers 46. Ann. Conf. Calif. Mosquito and Vector Control Ass. (Yosemite, California, Jan. 29-Feb. 1)*, 92-93

Romanomermis culicivora, control of fungus hyperparasitic in nematode, problem in mass raising for mosquito biological control, fungicides evaluated

Hyperparasitism

Durfort, M., 1978, *Bol. R. Soc. Espan. Hist. Nat.*, Secc. Biol., v. 75, 1977, 71-86

Mytilicola intestinalis from *Mytilus edulis*, female gonad, ultrastructural study, germinal cells during oogenesis; protozoan parasite in germinal cells

Hyperparasitism

Edwards, S.; and Mueller, J. F., 1978, *J. Parasitol.*, v. 64 (5), 877

various genera and species of *Caryophyllaeidae*, apparent absence of C-viruslike particles which are found in *Pseudophyllidae*

Hyperparasitism

Eva, A.; et al., 1979, *J. Protozool.*, v. 26 (2), 249-252

Trichomonas vaginalis, resistance to infection by Mengo virus

Hyperparasitism

- Higby, G. C.; et al., 1979, *Parasitology*, v. 78 (2), 155-170
Nosema eurytremae derived from trematode larvae, propagation in abnormal (insect) hosts and in tissue culture

Hyperparasitism

- Ide, G. S.; and Mahunka, S., 1978, *Rovartani Kozlem. (Folia Entom. Hungar.)*, n.s., v. 31 (1), 47-49
Haematobia irritans as host of *Ameranoetus hematobii* sp. n.: Gainesville, Florida

Hyperparasitism

- Kaya, H. K.; and Brayton, M. A., 1978, *J. Nematol.*, v. 10 (4), 350-354
Neoplectana carpocapsae, development and reproduction in healthy and virus-infected *Pseudaletia unipuncta*; confirmation of presence of virus in intestine of nematodes, possibly useful in pest-management systems

Hyperparasitism

- Krylov, M. V.; Kostenko, L. A.; and Snigirevskaya, E. S., 1973, *Parazitologiya, Leningrad*, v. 7 (6), 481-484
Nuttallia musculi, trophozoites, merozoites, fine structure; bacteria-like bodies often found in cytoplasm

Hyperparasitism

- Laumond, C.; and Beaucournu, J. C., 1978, *Ann. Parasitol.*, v. 53 (3), 291-302
nematodes of family Allantonematidae causing parasitic castration in fleas: southwest Europe

Hyperparasitism

- Lee, Y. C.; and Liu, C. C., 1977, *J. Chinese Soc. Vet. Sc.*, v. 3 (2), 37-40
Ascaris suum, entry of 4 species of bacteria into parasite egg before shell formation

Hyperparasitism

- Lopez-Roman, R.; and Guevara Pozo, D., 1976, *Rev. Iber. Parasitol.*, v. 36 (1-2), 135-138
Cyclocotyla bellones, parasite of *Meinertia oestroides* in Boops boops (cavidad bucal): costa de Granada (Mar de Alboran), Espana

Hyperparasitism

- Mackenzie, C.; and Walker, M. H., 1979, *Cell and Tissue Research*, v. 202 (1), 33-39
Gregarina garnhami, bacteria-like structures in endoplasm, light and electron microscopy

Hyperparasitism

- Mattern, C. F. T.; Keister, D. B.; and Diamond, L. S., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (4), 653-657
Entamoeba histolytica, viral conversion of virulence, data indicate that amebae surviving virus infection may be increased, decreased, or unaltered in virulence unrelated to virulence of amebal strain serving as viral donor

Hyperparasitism

- Megaw, M. W. J., 1978, *Nature, London* (5644), v. 271, 483-484
Boophilus microplus, virus-like particles pathogenic to tick salivary glands, viruses pathogenic to ticks could have potential as biological control agents

Hyperparasitism

- Meola, S.; and DeVaney, J., 1976, *J. Invert. Path.*, v. 28 (2), 195-201
Lipeurus caponis, *Monopon gallinae*, *Menacanthus stramineus*, parasitism by the fungus *Trenomyces histophorus*, resulting damage to fat body and skeletal muscle

Hyperparasitism

- Nemanic, P. C.; et al., 1979, *J. Infect. Dis.*, v. 140 (2), 222-228
Giardia muris, occurrence of endosymbiotic microbes; *G. muris*, *G. lamblia*, organelle distribution

Hyperparasitism

- Ovchinnikov, N. M.; et al., 1978, *Vestnik Dermat. i Venerol.* (4), 16-21
Trichomonas vaginalis, survival of gonococci within phagosomes of parasite suggests *T. vaginalis* as possible reservoir for infections; various therapeutic trials used to treat mixed infections

Hyperparasitism

- Palmieri, J. R.; et al., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (2), 256-259
Nosema spp., experimental infections in *Lymnaea rubiginosa*, *Fasciola gigantica*, *Echinostoma audyi*, and *Tracheophilus* sp.

Hyperparasitism

- Paperna, I.; Sabnai, I.; and Castel, M., 1978, *Ann. Parasitol.*, v. 53 (2), 123-130
microsporidian infection (tentatively *Pleistophora*) reported in *Liza ramada* in fibroblasts of metacercarial capsule of *Heterophyes heterophyes*, infection of metacercarial cyst resulted in hypertrophy of cyst wall and degeneration and eventual death of encapsulated metacercaria: Bardawil Lagoon, Mediterranean coast of Sinai Peninsula

Hyperparasitism

- Rohde, K., 1979, *Am. Naturalist*, v. 114 (5), 648-671
ectoparasites of fish, particularly *Monogenea*, critical evaluation of intrinsic and extrinsic factors responsible for niche restriction

Hyperparasitism

- Schuster, F. L.; and Dunnebacke, T. H., 1974, *Ann. Soc. Belge Med. Trop.*, v. 54 (4-5), 359-370
Naegleria amoebae contain virus-like particles and an unassociated infectious agent, possible relationship to pathogenicity, review

Hyperparasitism

- Shigina, N. G.; and Grobov, O. F., 1972, *Parazitologiya, Leningrad*, v. 6 (5), 469-475
Nosema diplostomi sp. n., hyperparasite of *Diplostomum metacercariae* found in eyes of fish: Moskovsk oblast

Hyperparasitism

- Stirling, A. M.; and Platzer, E. G., 1978, *J. Invert. Path.*, v. 32 (3), 348-354
Romanomeris culicivora parasitized by *Catenaria anguillulae*, disease controlled by rearing nematodes in water adjusted to a pH of 4.5

Hyperparasitism

Szidat, L., 1973, *Ang. Parasitol.*, v. 14 (1), 1-10

Paragyrodactylus superbus n. g., n. sp., unusual organ function, evolutionary implications; presence of *Cercomonas* sp. as symbiont in intestine

Hyperparasitism

Voronin, V. N., 1974, *Parazitologiya*, Leningrad, v. 8 (4), 359-364

Nosema (including n. spp.) in trematodes: USSR

Hyperparasitism

Weinman, D.; and Cheong, W. H., 1978, *J. Protozool.*, v. 25 (2), 167-169

Herpetomonas sp. infections in laboratory-reared *Aedes aegypti* and *A. albopictus* (Malphighian tubules of both), 30 to 40% of the flagellates contained intracytoplasmic rod-shaped structures strongly resembling bacteria: Institute for Medical Research, Kuala Lumpur, Malaysia

Hyperparasitism

Wittrock, D. D., 1978, *Iowa State J. Research*, v. 53 (1), 47-48

Giardia muris found attached to acetabular tegument of *Mathevotaenia symmetrica* parasitizing small intestine of *Mus musculus*, paraneoxenous association, probably accidental and probably occurs when heavy infections of *Giardia* are present in mouse intestine

Hyperparasitism

Yunker, C. E.; and Chitwood, M. B., 1973, *Acarologia*, v. 14 (4), 530-532

larval filariae, possibly *Litomosia* sp. in *Macronyssoides kochi* (anterior part of idiosoma), parasitic on *Artibeus jamaicensis*: 18 km N. of Valera, Trujillo, Venezuela

Hypersensitivity, Delayed. See Immunity, Cell-mediated.

Hypersensitivity, Immediate. See Immunity, Allergy.

Hypobiosis. See Development.

Iakutskaja ASSR. See Russia, Yakutsk ASSR.

Icterus. See Jaundice.

Idaho. See United States, Idaho.

Identification. See Diagnosis.

Illumination. See Light.

Immune complexes. See Immunity, Immune complexes.

Immunity. [See also Interferon; Mast cells; Resistance, Host]

Immunity

Aalund, O., 1972, *Immun. Animal Parasites*, 1-31
humoral immune response and immunoglobulins
of ruminants and swine, review

Immunity

Agosin, M.; and Naquira, C., 1978, *Comp. Biochem. and Physiol.*, v. 60B (2), 183-187
Taenia crassiceps, mRNA isolated from parasite polysomes directs synthesis of proteins in cell-free heterologous systems which are precipitable by antisera against parasite proteins

Immunity

Aikawa, M.; et al., 1979, *J. Protozool.*, v. 26 (2), 273-279
Plasmodium spp., sporozoites before and after incubation in immune serum, freeze-fracture study, antibody-induced changes of pellicular membrane

Immunity

Aitken, M. M.; et al., 1979, *Research Vet. Sc.*, v. 27 (3), 306-312
Fasciola hepatica-infected and non-infected cattle, immune responses to *Salmonella dublin*, *Brucella abortus*, and ovalbumin

Immunity

Akahane, H., 1975, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 24 (6), 347-352
Fasciola sp., rabbits, acute and chronic phases of infection, Ouchterlony and complement fixation titers

Immunity

Albright, J. W.; and Albright, J. F., 1978, *Infect. and Immun.*, v. 22 (2), 343-349
Trypanosoma musculi, in vitro growth in cultures of murine spleen cells, analysis of requirement for supportive spleen cells, demonstration of utility of this culture system for analysis of host immune responses against the trypanosome

Immunity

Alexander, J.; and Phillips, R. S., 1978, *Exper. Parasitol.*, v. 44 (1), 136-142
Leishmania mexicana, *L. tropica major*, lesion growth in mice was markedly inhibited by concurrent *Trypanosoma brucei* infections, possible mechanisms, may or may not have immunological basis

Immunity

Ali-Khan, Z., 1978, *Immunology*, v. 34 (5), 831-839
Echinococcus multilocularis sibiricensis, C57L/J mice infected with 20 or 100 cysts, pathology of spleen, lymph nodes, and thymus at 2, 4, 8, and 12 weeks postinfection, implications for immunological status

Immunity

Ali-Khan, Z., 1978, *Ztschr. Parasitenk.*, v. 58 (1), 47-54
Echinococcus granulosus, mice, pathological changes in thymus-dependent areas of spleen and lymph nodes

Immunity

Ali-Khan, Z., 1979, *Ztschr. Parasitenk.*, v. 59 (3), 259-265
Echinococcus multilocularis, mice, potentiated humoral response to sheep red blood cells at 8 and 12 weeks post-infection

Immunity

Allen, J. R.; Khalil, H. M.; and Graham, J. E., 1979, *Immunology*, v. 38 (3), 467-472
Dermacentor andersoni, guinea pigs undergoing primary and secondary infestations, immunofluorescent localization of tick salivary gland antigens, IgG, and complement in skin

Immunity

Allen, J. R.; Khalil, H. M.; and Wikel, S. K., 1979, *J. Immunol.*, v. 122 (2), 563-565
Dermacentor andersoni, Langerhans cells trap tick salivary gland antigens in tick-resistant guinea pigs

Immunity

Allison, A. C.; and Clark, I. A., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 147-160
macrophage activation and its relevance to immunology and immunopathology of parasitic diseases, colloquium presentation

Immunity

Altaif, K. I.; and Dargie, J. D., 1978, *Parasitology*, v. 77 (2), 161-175
Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to moderate primary infection, concluded that genetic resistance operated primarily against worm establishment and was probably controlled by the immune response elicited, in heavy infections there was no correlation between worm establishment and haemoglobin type

Immunity

Altaif, K. I.; and Dargie, J. D., 1978, *Parasitology*, v. 77 (2), 177-187
Haemonchus contortus, influence of breed and haemoglobin type on clinical and pathophysiological response of sheep to re-infection (either after primary infection was terminated with anthelmintic or challenge superimposed on existing adult infection), patterns of worm establishment and disease indicated that genetic factors operated in determining resistance, breed but not haemoglobin type appeared to be of some significance in 'self-cure'

Immunity

Alvarez Gomez, L. de las N.; and Sordo Gonzalez, M., 1977, *Rev. Cubana Med. Trop.*, v. 29 (3), 129-133
Giardia lamblia, method for obtaining specific antiserum in rabbits

Immunity

Amerault, T. E.; et al., 1978, Am. J. Vet. Research, v. 39 (4), 675-677

Anaplasma marginale-infected bovine erythrocytes, serologic and hematologic response of rabbits; rabbits not susceptible to A. marginale despite specific antibody production as measured by card and complement fixation tests, therefore can not be substituted for calf inoculation as a confirmatory test for anaplasmosis

Immunity

Ananthanarayanan, M.; Gupta, N.; and Subrahmanyam, D., 1979, Indian J. Med. Research, v. 69, 732-738

Plasmodium berghei, ability of hyperimmune serum to neutralize infective inoculum, isolation and characterization of protective antibody, antibody combined mainly with free parasites and not with infected RBC

Immunity

Anderson, M. J. D.; and Griffin, J. I. T., 1979, Internat. J. Parasitol., v. 9 (3), 229-233

Taenia crassiceps, rats, differences in susceptibility to infection and development of immunocompetence in relation to host strain and age

Immunity

Andrade, S. G.; et al., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (6), 395-402

Trypanosoma cruzi, mice with chronic infection with Colombian strain, inoculation with virulent Y strain, results demonstrate that chronic infection produces partial immunity and that co-existence of parasite strains is possible

Immunity

Andreassen, J.; Hindsbo, O.; and Ruitenberg, E. J., 1978, Immunology, v. 34 (1), 105-113
Hymenolepis diminuta in congenitally athymic (nude) mice vs. their thymus-bearing littermates, worm kinetics and intestinal histopathology, passive immunization showed no conclusive role of serum antibodies in host protection, host protection was dependent on number of worms and worms could be expelled in absence of functional T-cells

Immunity

Andrews, J. D., 1968, Proc. 1967 National Shellfish Ass., v. 58, 23-26

Minchinia nelsoni in Crassostrea virginica (susceptible imports, native oysters and progeny), seasonal patterns of morbidity and mortality, survival of early generations in MSX-prevalent areas suggests that acquired resistance is involved; hypotheses on origin of infection and life cycle of pathogen: Virginia waters

Immunity

Antunes, L. J.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (1), 9-13

human intestinal schistosomiasis mansoni before and after treatment with aminonitrothiazole, immunoglobulin levels, immediate and delayed cutaneous hypersensitivity

Immunity

Anwar, A. R. E.; Smithers, S. R.; and Bay, A. B., 1979, J. Immunol., v. 122 (2), 628-637

Schistosoma mansoni, killing of schistosomula coated with antibody and/or complement by human leukocytes in vitro, requirement for complement in preferential killing by eosinophils

Immunity

Araj, G. F.; Matossian, R. M.; and Frayha, G. J., 1977, Ztschr. Parasitenk., v. 52 (1), 23-30

Echinococcus granulosus, mice with secondary hydatidosis, time-related development of complement-fixing and hemagglutinating antibodies, correlation with cyst development

Immunity

Araj, G. F.; Matossian, R. M.; and Malakian, A. H., 1977, Ztschr. Parasitenk., v. 52 (1), 31-38

Echinococcus granulosus, mice with secondary hydatidosis, cell-mediated immune response in relation to humoral immune response and cyst development, passive protection with spleen cells

Immunity

Arme, C.; and Walkey, M., 1970, Symposia Brit. Soc. Parasitol., v. 8, 79-101

physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)

Immunity

Arnaudov, D., 1978, Vet. Med. Nauki, v. 15 (7), 38-46

Toxoplasma gondii strains isolated from rabbits and fetuses of ewes which miscarried, comparative studies of virulence and immunogenicity, role in etiology of abortion

Immunity

Arredondo, B.; and Perez, H., 1979, Infect. and Immun., v. 25 (1), 16-22

Leishmania mexicana, mice, chronic infection, alterations of immune response, results suggest role for suppressor cells in pathogenesis of diffuse cutaneous leishmaniasis

Immunity

Askenase, P. W., 1979, J. Allergy and Clin. Immunol., v. 64 (2), 79-89

immune recruitment of basophils to cutaneous basophil hypersensitivity (CBH) reactions, regulation of tissue basophilia, anaphylactic function of basophils at CBH reactions, clinical consequences of basophil accumulation at CBH reactions, role of mast cells in delayed-type hypersensitivity, review

Immunity

Au, A. C. S.; and Ko, R. C., 1979, Ztschr. Parasitenk., v. 59 (2), 161-168

Trichinella spiralis, Angiostrongylus cantonensis, cross-resistance in laboratory rats

Immunity

Au, A. C. S.; and Ko, R. C., 1979, Ztschr. Parasitenk., v. 58 (3), 233-242

Angiostrongylus cantonensis, rats, small primary infection followed by challenge infection at various periods, worm burden, haematological and serological response

Immunity

Aust-Kettis, A.; and Sundqvist, K. G., 1978, Scand. J. Immunol., v. 7 (1), 35-44

Entamoeba histolytica, distribution and redistribution of antigen determinants and Con A receptors on surface, reappearance of antigen, effect of metabolic inhibitors and pH on ligand induced redistribution, capping and endocytosis in phagocytizing amoebae and influence of inhibitory compounds, variation of expression of surface antigens

Immunity

Baalawy, S. S., 1975, Bull. Animal Health and Prod. Africa, v. 23 (1), 99-102

Fasciola gigantica, rabbits, passive immunization with homologous immune serum and sensitized lymphocytes from previously infected rabbits and heterologous immune serum from previously infected goats, results indicate both humoral and cell-mediated factors take part in immune mechanism

Immunity

Baillenger, J.; and Souby, J., 1979, Ann. Parasitol., v. 54 (2), 227-235

Strongyloides ratti-infected rats, variations in corticosteronemia during course of infection, importance of time of sampling, possible relationship to worm expulsion

Immunity

Baird, C. R., 1979, J. Parasitol., v. 65 (4), 639-644

Cuterebra tenebrosa, incidence in *Neotoma cinerea* from April to November of 1970 and 1971, experimental infections attempted in captive rodents and rabbits, dosage level and effect on hosts, larval migration, site of larval development, acquired immunity, egg viability

Immunity

Bajwa, R. S.; and Gill, B. S., 1977, Acta Vet. Brno, v. 46 (1-2), 149-158

Eimeria tenella, chickens (exper.), decoquinate vs. amprolium used prophylactically vs. therapeutically, anticoccidial activity against different levels of infection, effect on development of immunity

Immunity

Baker, J. R.; and Liston, A. J., 1978, J. Gen. Microbiol., v. 104 (1), 79-89

Trypanosoma dionisii, effect of various agents (including temperature, complement, trypsin, cytochalasin B and immune plasma) on attachment and entry to mouse peritoneal macrophages in vitro, and subsequent morphogenesis; attachment occurred to non-specific receptors, entry by phagocytosis

Immunity

Balber, A. E.; et al., 1979, Infect. and Immun., v. 24 (3), 617-627

Trypanosoma brucei brucei, T. congolense, inactivation or elimination of potentially trypanolytic complement-activating immune complexes containing antibodies to variant-specific antigens

Immunity

Ballantyne, A. J.; Sharpe, M. J.; and Lee, D. L., 1978, Parasitology, v. 76 (2), 211-220

Nippostrongylus brasiliensis, rats, *Nematodirus battus*, lambs, changes in parasite adenylate energy charge during course of infection, results indicate that immune response of host may affect energy status of these nematodes and this could help to explain their subsequent expulsion from the immune host

Immunity

Barbour, A. D., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 6-15

schistosomiasis, use of Macdonald's model to establish a policy for controlling human infection, based on human immunity and proportion of infected vector snails in a given area

Immunity

Barratt, T. M., 1979, Arch. Dis. Childhood, v. 54 (11), 825-830

malaria as therapy for nephrotic syndrome of childhood, immunological and other aspects, brief review

Immunity

Bass, D. A.; and Szejda, P., 1979, J. Clin. Invest., v. 64 (5), 1415-1422

Trichinella spiralis, killing of newborn larvae by human granulocytes in vitro: Larvicidal abilities of eosinophils and neutrophils, opsonin requirements, kinetics of killing, effect of inhibitors, killing ability of leukocytes from patient with chronic granulomatous disease

Immunity

Bass, D. A.; and Szejda, P., 1979, J. Clin. Invest., v. 64 (6), 1558-1564

Trichinella spiralis, killing of newborn larvae during incubation with granule preparations of human eosinophils or neutrophils and generators of hydrogen peroxide or superoxide and hydrogen peroxide

Immunity

Bassily, S.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (11-12), 248-251

schistosomiasis, human decompensated hepatosplenic, association with chronic hepatitis B antigenaemia

Immunity

Bautista, C. R.; and Kreier, J. P., 1979, Infect. and Immun., v. 25 (1), 470-472

Babesia microti, short-term in vitro culture in hamster erythrocytes, inhibitory effect of immune serum on growth in vitro

Immunity

Bazin, H., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 185-200

secretory immunoglobulins and local immunity, colloquium presentation

Immunity

Beaver, J. A.; and Dobson, C., 1978, Internat. J. Parasitol., v. 8 (1), 9-13

Angiostrongylus cantonensis, parasite acetylcholinesterase levels during development and migration in rats, relationship to host immunological response

Immunity

- Befus, A. D.; and Bienenstock, J., 1979, *Immunology*, v. 38 (1), 95-101
Nippostrongylus brasiliensis-infected rats, immunologically-mediated intestinal mastocytosis

Immunity

- Befus, A. D.; Johnston, N.; and Bienenstock, J., 1979, *Exper. Parasitol.*, v. 48 (1), 1-8
Nippostrongylus brasiliensis-infected rats, mast cells and histamine levels in tissues

Immunity

- Behn, R.; Mauel, J.; and Sordat, B., 1979, *Exper. Parasitol.*, v. 48 (1), 81-91
Leishmania tropica major in various strains of mice, course of infection and size distributions of cutaneous lesions, in vitro macrophage function

Immunity

- Behnke, J. M.; and Parish, H. A., 1979, *Exper. Parasitol.*, v. 47 (1), 116-127
Nematospirides dubius, arrested development of larvae in immune mice, resumption of development after cortisone treatment, arrested larvae were insusceptible to activity of pyrantel embonate

Immunity

- Behnke, J. M.; and Parish, H. A., 1979, *Parasite Immunol.*, v. 1 (1), 13-26
Nematospirides dubius, expulsion from intestine of mice treated with immune serum

Immunity

- Behnke, J. M.; Wakelin, D.; and Wilson, M. M., 1978, *Exper. Parasitol.*, v. 46 (1), 121-130
Trichinella spiralis, delayed expulsion in mice concurrently infected with *Nematospirides dubius*

Immunity

- Bell, R. G.; and McGregor, D. D., 1979, *Exper. Parasitol.*, v. 48 (1), 42-50
Trichinella spiralis, rats exposed to abbreviated enteral infection, induction and expression of rapid expulsion response to challenge infection

Immunity

- Bell, R. G.; and McGregor, D. D., 1979, *Exper. Parasitol.*, v. 48 (1), 51-60
Trichinella spiralis, role of different life cycle phases in induction, maintenance, and expression of rapid expulsion in rats

Immunity

- Bell, R. G.; McGregor, D. D.; and Despommier, D. D., 1979, *Exper. Parasitol.*, v. 47 (2), 140-157
Trichinella spiralis, rats, mediation of intestinal component of protective immunity by multiple phase-specific antiparasitic responses

Immunity

- Belozherov, E. S.; et al., 1978, *Zhurnal Mikrobiol., Epidemiol. i Immunobiol.* (2), 78-80
opisthorchiasis, patients, indices of cellular and humoral immunity in chronic cases

Immunity

- Benach, J. L.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (4), 643-648
Babesia microti, 1 human-derived and 2 rodent-derived isolates from Long Island, immunological relationships

Immunity

- Ben-Ismail, R.; Carme, B.; and Gentilini, M., 1979, *Path. Biol.*, v. 27 (8), 487-489
Fasciola hepatica, *F. gigantica*, *Echinococcus granulosus*, detection of blood group antigen PI activity in extracts, not detected in *T[ania] saginata* extract

Immunity

- Bennet, E. M.; Behm, C.; and Bryant, C., 1978, *Internat. J. Parasitol.*, v. 8 (6), 463-466
Mesocostoides corti, mice (infected, injected with dead larvae previous to infection, or irradiated), effects of mebendazole and levamisole alone or together on tetrathyridia, concluded that anthelmintic efficacy of mebendazole depends on its anthelmintic activity supplemented by host's immune response and that levamisole stimulates the latter

Immunity

- Bennett, L. J., 1978, *J. Parasitol.*, v. 64 (1), 182-185
Australian spargana, mice, immunological responses (tissue reactions, precipitating antibodies, anaphylactic reactions) not found to be weak or abnormal

Immunity

- Bennett, L. J., 1978, *J. Parasitol.*, v. 64 (4), 756-759
Spirometra mansoni, immunological responses of *Bufo marinus* to Australian spargana, comparison with reactions of mice

Immunity

- Beverley, J. K. A.; Henry, L.; and Hunter, D., 1978, *Research Vet. Sc.*, v. 24 (2), 139-146
Toxoplasma gondii, 1-, 8-, and 10-day-old piglets (exper.), serological findings, tissue cysts, reactive changes in lymphoid tissue, incidence and severity of inflammatory lesions, organs affected; *T. gondii* more virulent in younger piglets due to delayed maturation of host lymphoid system during first week of life

Immunity

- Bezubik, B., 1978, Immunological response of sheep to ostertagiosis, haemonchosis and chabertiosis and preparation of UV vaccine, 205 pp.
Ostertagia circumcincta, *Haemonchus contortus*, *Chabertia ovina*, sheep, immunological response, preparation of UV vaccine, final technical report 1973-1978

Immunity

- Bhaibulaya, M.; and Indra-Ngarm, S., 1979, *Internat. J. Parasitol.*, v. 9 (4), 321-322
Capillaria philippinensis, *Amaurobis phoenicurus* and *Ardeola bacchus* as experimental definitive hosts, prepatent periods, occurrence of autoinfection, development of protective immunity

Immunity

- Bhopale, M. K.; and Johri, G. N., 1978, *J. Helminth.*, v. 52 (3), 193-198
Ancylostoma caninum, mice, different groups infected with various single or repeated doses of larvae, larval recoveries from various organs and muscle regions of animals belonging to immunized and unimmunized groups

Immunity

- Bhopale, M. K.; and Kamath, V. R., 1979, J. Helminth., v. 53 (3), 252-254
Ancylostoma caninum, mice, single and repeated infections, haemagglutination test, evidence of presence of antibodies in serum and intestinal tissue

Immunity

- Bickle, Q.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 37-41
Schistosoma mansoni, mice, failure of primary infections with cercariae of 1 sex to induce same degree of resistance to reinfection as bisexual primary infections

Immunity

- Biglan, A. W.; Glickman, L. T.; and Lobes, L. A., jr., 1979, Am. J. Ophth., Chicago, s. 3, v. 88 (5), 898-901
Toxocara canis, humans, endophthalmitis, enzyme-linked immunosorbent assay revealed *Toxocara*-specific antibody in serum and vitreous humor

Immunity

- Billecocq, A.; Benex, J.; and Faure, M., 1979, Compt. Rend. Acad. Sc., Paris, v. 288, s. D, Sc. Nat. (5), 575-578
Schistosoma mansoni, acquisition of phospholipid antigens on surface of schistosomula

Immunity

- Bitzan, M.; and Spira, D. T., 1978, Israel J. Med. Sc., v. 14 (6), 673-681
Plasmodium berghei-infected mice, impaired traffic of lymphocytes as possible cause of immunosuppression in malaria, symposium presentation

Immunity

- Blagburn, B. L.; Chobotar, B.; and Smith, R. T., 1979, Ztschr. Parasitenk., v. 59 (1), 1-14
Eimeria ferrisi in *Mus musculus*, clinical and histologic study of actively induced resistance

Immunity

- Blewett, D. A.; and Adam, K. M. G., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 513-522
Babesia divergens, cattle, data for host age and antibody incidence and titre analyzed using 3 epidemiological models to estimate rates of gain and loss of antibody; Scotland

Immunity

- Bloom, B. R., 1979, Nature, London (5708), v. 279, 21-26
 mechanisms by which parasites escape immune surveillance, review

Immunity

- Blum, K.; and Cioli, D., 1978, European J. Immunol., v. 8 (1), 52-56
Schistosoma mansoni in Biozzi high (Ab/H) and low (Ab/L) responder mice, Ab/H mice produce higher levels of humoral antibodies but are more susceptible to infection, higher level of specific antibodies in Ab/H mice is not accompanied by higher capacity to develop immune resistance to second infection, findings suggest that humoral antibodies per se may not play critical role in schistosome immunity and call attention to possible importance of macrophages in determining results observed

Immunity

- Bogucki, M. S.; and Seed, J. R., 1978, J. Reticuloendothel. Soc., v. 23 (2), 89-101
Trypanosoma brucei gambiense, parasite-bound heterospecific antibody, immunoglobulin class specificity, location and orientation, may be related to successful propagation of trypanosomes in immunocompetent hosts

Immunity

- Bolbol, A. S.; Hammond, J. A.; and Sewell, M. M. H., 1978, Vet. Sc. Commun., v. 2 (3), 231-235
Fasciola hepatica, rabbits, repeated infections terminated by rafoxanide, host response in terms of resistance, serum glutamic dehydrogenase assays, eosinophil counts, and post-mortem appearance of liver

Immunity

- Boonpucknavig, S.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (4), 79-83
Plasmodium berghei, mice, treatment with carbon particles in attempt to block macrophages, alterations in immune response, immunopathology, and histology patterns

Immunity

- Boonpucknavig, V.; Boonpucknavig, S.; and Bhamarapavati, N., 1979, Arch. Path. and Lab. Med., v. 103 (11), 567-572
Plasmodium berghei-infected mice treated with chloroquine phosphate, focal glomerulonephritis in hyperimmune state, clinical, immunopathologic, and histopathologic findings

Immunity

- Borges, J. S.; and Johnson, W. D., jr., 1975, J. Exper. Med., v. 141 (2), 483-496
Toxoplasma gondii, in vitro model for quantitation of multiplication in monocytes from normal and immune human subjects, findings show that capacity to inhibit growth of toxoplasmas is induced in monocytes by a product released after exposure of T lymphocytes from immune subjects to toxoplasma antigen

Immunity

- Boron-Kaczmariska, A., 1979, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe A, v. 244 (4), 552-557
Trichinella spiralis, rabbits (exper.), dynamics of immunocytoadherence test, value in diagnostic and prognostic evaluation of trichinellosis

Immunity

- Boron-Kaczmariska, A.; et al., 1979, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe A, v. 245 (3), 387-394
 trichinellosis, human, acute phase, IgG, IgA, and IgM levels, percentages of T and B lymphocytes

Immunity

- Boulard, C. F., 1979, Vet. Parasitol., v. 5 (4), 379-387
Hypoderma-infected or uninfected calves, treatment with fenthion or trichlorfon, blood histamine levels, circulating antibody titers to *Hypoderma lineatum* antigen in infected calves; blood histamine levels in guinea pigs after injection of ground-up *Hypoderma lineatum* larvae or application of fenthion

Immunity

- Boyer, M. H.; and Kalfayan, L. J., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 542-547
Schistosoma mansoni, mice, presence of transferred adult worms in mesenteric veins is associated with decreased recovery of worms from later cercarial challenge

Immunity

- Bray, R. S., 1978, *J. Parasitol.*, v. 64 (3), 410
 absence of circumsporozoite antibodies (to *Plasmodium falciparum*) in areas of hyperendemic malaria in The Gambia, appears that antibodies to sporozoites of human malaria parasites are not generated in nature

Immunity

- Breese, S. S., jr.; and Hsu, K. C., 1973, *Immunol. Series*, v. 2, 141-167
 immuno-electron microscopic applications of ferritin-tagging, review with brief mention of *Plasmodium berghei* and *Trypanosoma brucei*

Immunity

- Brindle, Y.; Letarte, R.; and Gagnon, J., 1979, *Canad. J. Microbiol.*, v. 25 (6), 788-789
Fasciola hepatica, hemagglutination titers in *Alces americana*: Province of Quebec, Canada

Immunity

- Brisette, W. H.; Coleman, R. M.; and Rencricca, N. J., 1978, *Proc. Soc. Exper. Biol. and Med.*, v. 159 (2), 317-320
Plasmodium berghei-infected mice, progressive depression in splenic T-cell population, abnormal T-cell migration

Immunity

- Brogren, C. H.; and Weidanz, W. P., 1978, *Protides Biol. Fluids*, v. 26, 233-237
Plasmodium berghei yoelii, mice, antibodies and antigens studied by quantitative immunoelectrophoresis

Immunity

- Brooks, B. O.; and Reed, N. D., 1979, *J. Reticuloendothel. Soc.*, v. 25 (3), 325-328
Trypanosoma muscui, nude and normal mice, trypan blue treatment, results suggest that macrophages may participate in early non-specific control of parasitemia and in immune clearance of parasitemia

Immunity

- Brossard, M.; and Girardin, P., 1979, *Experimentia*, v. 35 (10), 1395-1397
Ixodes ricinus, rabbits, passive transfer of resistance with immune serum, effect on feeding and egg laying, IgG and homocytotropic specific antibodies of donors and recipients, immediate skin sensitivity of recipients

Immunity

- Brown, K. N., 1976, *Immunol. Parasit. Infect.*, 268-295
 malaria, immunity, review

Immunity

- Brown, K. N., 1978, *Israel J. Med. Sc.*, v. 14 (5), 571-574
 malaria, factors influencing outcome of infection, antigenic specificity of and protective immunity to asexual erythrocytic parasites, symposium presentation

Immunity

- Brown, T., 1979, *J. Med. Microbiol.*, v. 12 (3), 355-362
Naegleria fowleri, cytopathogenicity in mouse embryo-cell cultures, inhibition by amoeba-specific antiserum and by cytochalasin B, concluded that cytopathogenicity was due to physical rather than biochemical or cytotoxic mechanisms and was associated with phagocytic activity of trophozoites

Immunity

- Burgess, D. E.; and Hanson, W. L., 1979, *Infect. and Immun.*, v. 25 (3), 838-843
Trypanosoma cruzi, mice, adoptive transfer of protection with lymphocytes and macrophages

Immunity

- Butcher, G. A.; Mitchell, G. H.; and Cohen, S., 1978, *Immunology*, v. 34 (1), 77-86
Plasmodium knowlesi, *Macaca mulatta*, antibody-mediated mechanisms associated with sterilizing immunity induced by merozoite vaccination, role of Freund's complete adjuvant

Immunity

- Butterworth, A. E.; et al., 1979, *J. Immunol.*, v. 122 (1), 221-229
Schistosoma mansoni, eosinophil major basic protein (MBP) can bind to and damage schistosomula, antibody-dependent eosinophil-mediated damage to schistosomula is associated with release of MBP both onto surface of organism and into culture supernatant

Immunity

- Butterworth, A. E.; et al., 1979, *J. Immunol.*, v. 122 (4), 1314-1321
Schistosoma mansoni, cytolytic T lymphocytes recognize alloantigens on schistosomula but fail to induce damage

Immunity

- Bywater, J. E.; and Kellett, B. S., 1978, *Infect. and Immun.*, v. 21 (2), 360-364
Encephalitozoon cuniculi, existence in specific-pathogen-free rabbit colony, small-sized samples failed to reveal presence of infection with low prevalence, organism probably present in original stock of unit, possibility of establishing *Encephalitozoon*-free colony by culling all positive reactors using India ink immunoreaction test, incidence (familial, sexual, and age-related) and possible routes of transmission

Immunity

- Bywater, J. E. C.; and Kellett, B. S., 1979, *Lab. Animals*, v. 13 (4), 293-297
Encephalitozoon cuniculi, 4 generations of a family of rabbits tested at different ages, antibody titres, distribution of histopathological lesions

Immunity

- Campbell, G. H.; Esser, K. M.; and Phillips, S. M., 1978, *Infect. and Immun.*, v. 20 (3), 714-720
Trypanosoma rhodesiense infection in congenitally athymic (nude) mice, reduced parasitemia and prolonged survival, active immunity after infection and cure or after immunization with irradiated organisms, results indicate that resistance of mice to *T. rhodesiense* infection is relatively independent of thymic lymphocyte function

Immunity

- Campbell, N. J.; Kelly, J. D.; and Dineen, J. K., 1978, *Vet. Parasitol.*, v. 4 (4), 317-325
Fasciola hepatica, rats, functional role for gut in development of age resistance demonstrated by comparing number and development of flukes recovered following oral vs. intraperitoneal administration of encysted metacercariae

Immunity

- Camus, D.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (2), 77-79
Schistosoma mansoni, differences in susceptibility to infection related to human blood types

Immunity

- Camus, D.; et al., 1978, *Pharmacol. Immunoreg.*, 253-265
Schistosoma mansoni, mice, rats, role of immunomodulating substances from parasites in regulation of immune response

Immunity

- Capo, C.; et al., 1979, *Compt. Rend. Acad. Sc., Paris*, v. 289, s. D, Sc. Nat. (10), 729-732
 non-specific binding of 5 types of particle (including *Leishmania*) to rat peritoneal cells, effect of various physical and chemical factors, lymphocytes as well as macrophages were able to bind *Leishmania*

Immunity

- Capron, A.; Dessaint, J. P.; and Capron, M., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 217-230
 effector mechanisms in immunity to schistosomes, comparison of 2 antibody-dependent cell-mediated cytotoxicity models (IgG-eosinophil model vs. IgE-macrophage model), colloquium presentation

Immunity

- Capron, M.; et al., 1978, *European J. Immunol.*, v. 8 (2), 127-133
Schistosoma mansoni, rats, eosinophil-dependent cytotoxicity, involvement of IgG_{2a} antibody and role of mast cells, these and previous observations suggest possible participation of anaphylactic antibodies in immunity to schistosomes in the rat

Immunity

- Capron, M.; et al., 1978, *J. Immunol.*, v. 121 (6), 2518-2525
Schistosoma mansoni schistosomula, eosinophil-dependent cytotoxicity mechanism requires signal provided by soluble mast cell mediators in addition to antibody

Immunity

- Capron, M.; Torpier, G.; and Capron, A., 1979, *J. Immunol.*, v. 123 (5), 2220-2230
Schistosoma mansoni, in vitro killing of schistosomula by eosinophils from infected rats, cytophilic antibodies or immune complexes responsible for either activation or blockade of eosinophil populations

Immunity

- Carlson, J. R.; and Goulson, H. T., 1977, *J. Elisha Mitchell Scient. Soc.*, v. 93 (3), 153-157
Strongyloides ratti, rats, standardized techniques developed for maintenance of laboratory infections, strong active acquired immunity demonstrated

Immunity

- Carter, R.; Gwadz, R. W.; and Green, I., 1979, *Exper. Parasitol.*, v. 47 (2), 194-208
Plasmodium gallinaceum, chickens, elaboration of antigamete antibodies during immunization and infection and their relationship to fertilization of malaria gametes in vitro and to transmission-blocking immunity in vivo, comparison with rhesus monkeys immunized with *P. knowlesi* gametes

Immunity

- Casarosa, L.; and Orlandi, M., 1978, *Ann. Fac. Med. Vet., Pisa*, v. 30, 117-129
Dictyocaulus filaria L₃ larvae, sensitized with immune lamb serum, adherence reaction with normal guinea pig peritoneal macrophages; reaction positive, complement independent and inversely proportional to antiserum dilution, induced by an immunoglobulin combining with cuticle of parasite

Immunity

- Castro, G. A.; Hessel, J. J.; and Whalen, G., 1979, *Parasite Immunol.*, v. 1 (4), 259-266
Trichinella spiralis, rats, intestinal fluid movement in response to primary or secondary infection, relationship to prevention of worm establishment

Immunity

- Catty, D., 1976, *Immunol. Parasit. Infect.*, 359-379
 trichinosis, immunity and acquired resistance, review

Immunity

- Cesari, I. M.; and Marchiani, C. A., 1978, *Exper. Parasitol.*, v. 45 (2), 175-182
Schistosoma mansoni, haemagglutinating activity of membrane-associated 'agglutinin' is mainly due to acidic phospholipids, possible molecular role of these structural membrane components in evasion of host immunological recognition and/or response

Immunity

- Chaicumpa, V.; and Jenkin, C. R., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (1), 61-68
Nematospirides dubius, peritoneal exudate cells from immune mice are able in vitro to damage 3rd stage infective larvae as measured by loss in infectivity, lymphocytes from immune mice are also able to damage larvae, suggestion is made that 'activated' macrophages may play important role in immunity to this infection

Immunity

- Chance, M. L.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (6), 533-542
Leishmania, identification of 68 strains from Aethiopian zoogeographical region on basis of biochemical and serological taxonomy (nuclear and kinetoplast DNA buoyant density, excreted factor serotypes, enzyme variant types), epidemiological implications

Immunity

- Chapman, C. B.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (4), 369-387
chronic parasitic infections in mice, IgG₁ hypergammaglobulinaemia, daily rate and location of production of IgG₁, T cell dependence of response

Immunity

- Chapman, C. B.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (4), 389-400
Mesocostoides corti, Nematospiroides dubius, mice, IgG₁ hypergammaglobulinaemia, evidence that response reflects chronicity of antigen exposure

Immunity

- Chapman, H. D., 1978, Avian Path., v. 7 (2), 269-277
Eimeria maxima, E. brunetti, E. tenella, chickens, effect of monensin on development of immunity acquired by repeated low-level infections

Immunity

- Chastel, C.; et al., 1977, Semaine Hop. Paris, v. 53 (18-19), 1059-1066
immunological status of women with regard to the Torch complex (toxoplasmosis, rubella, cytomegalovirus and herpes) surveyed, need for continued serologic surveillance during pregnancy

Immunity

- Chedid, L., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 249-262
therapeutic potential of immunoregulating synthetic compounds, enhancement of non-specific and specific immunity against parasitic infections by administration of various adjuvants, biological activity of synthetic immunoregulating molecules, colloquium presentation

Immunity

- Cheng, T. C.; et al., 1978, J. Invert. Path., v. 31 (1), 57-62
Echinostoma lindoense-infected Biomphalaria glabrata, elevation of aminopeptidase activity in hemocytes and serum, possible that this lysosomal enzyme may degrade surface proteins of secondarily introduced parasites and thus act as form of acquired humoral immunity

Immunity

- Chensue, S. W.; and Boros, D. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 291-299
Schistosoma mansoni, mice, population dynamics of T and B lymphocytes in lymphoid organs, peripheral blood, and hepatic granulomas, appearance of B cells within granulomas may indicate that they play role in modulating granulomatous hypersensitivity

Immunity

- Cherian, P. V.; and Dusanic, D. G., 1978, Exper. Parasitol., v. 44 (1), 14-25
Trypanosoma lewisi, distribution of surface antigens, movements of surface antigens induced by antibody, endocytosis of antigen-antibody complexes, ultrastructural observations

Immunity

- Chinchilla, M.; and Frenkel, J. K., 1978, Infect. and Immun., v. 19 (3), 999-1012
Toxoplasma gondii, Besnoitia jellisoni, antigen-treated lymphocytes from immune hamsters can directly confer immunity not only to macrophages but also to fibroblasts and kidney cells, infection-specific mediators can be derived from immune lymphocytes in presence of antigen and also confer immunity to macrophages and somatic cells

Immunity

- Christie, P. R.; Wakelin, D.; and Wilson, M. M., 1979, Parasitology, v. 78 (3), 323-330
Trichinella spiralis, Hymenolepis diminuta, rats, concurrent infections, cestode growth was stunted (dependent on relative timing of the 2 infections and on number of Trichinella administered) probably due to non-specific inflammatory component of host response to Trichinella, no loss of cestode nor destruction

Immunity

- Cioli, D.; Blum, K.; and Ruppel, A., 1978, Exper. Parasitol., v. 45 (1), 74-80
Schistosoma mansoni, onset of rejection in laboratory rats is dependent on parasite age and independent of length of contact with host, possible immune and nonimmune mechanisms

Immunity

- Civil, R. H.; and Mahmoud, A. A. F., 1978, J. Immunol., v. 120 (3), 1070-1072
Bacillus Calmette-Guerin (BCG) induces non-specific resistance to Schistosoma mansoni in only certain strains of inbred mice, BCG-induced protection does not correlate with increases in spleen weight and is not associated with genes of the major histocompatibility complex of the mouse

Immunity

- Claas, F. H. J.; and Deelder, A. M., 1979, J. Immunogenet., v. 6 (3), 167-175
Schistosoma mansoni, mice of 2 congenic inbred strains, immune response (worm burden, mortality, antibody titre, spleen index, eosinophilia, delayed type hypersensitivity, in vitro response to 3 S. mansoni antigen preparations), results indicate H-2 region influences course of acute infection but not susceptibility to infection

Immunity

- Clark, I. A., 1979, Infect. and Immun., v. 24 (2), 319-325
Babesia spp., Plasmodium vinckei petteri, mice, protection conferred by pretreatment with extract of Coxiella burnetii, possible involvement of interferon or tumor necrosis factor

Immunity

- Clark, I. A., 1979, Parasite Immunol., v. 1 (3), 179-196
Babesia microti, mice, protection against subsequent infection by injection of cord factor, COAM, zymosan, glucan, Salmonella, or Listeria

Immunity

- Clarke, J. R.; Chassoux, D.; and MacLennan, I. C. M., 1978, *Protides Biol. Fluids*, v. 26, 225-228
Dipetalonema viteae-infected hamsters, assessment of neutrophil activating factors (putative immune complexes) in serum

Immunity

- Clayton, C. E.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 241-249
Trypanosoma brucei brucei, membrane fractions mimic immunosuppressive and mitogenic effects of living parasites on the host

Immunity

- Clayton, C. E.; Ogilvie, B. M.; and Askonas, B. A., 1979, *Parasite Immunol.*, v. 1 (1), 39-48
Trypanosoma brucei brucei in nude mice confirms that infection causes both enhanced Ig production and suppression of ability of B cells to respond to mitogen even in absence of T cells

Immunity

- Clayton, H. M.; and Duncan, J. L., 1979, *Research Vet. Sc.*, v. 26 (3), 383-384
Parascaris equorum, development of immunity in foals infected at 2-4 weeks old vs. 6-12 months old reared worm-free vs. reared naturally

Immunity

- Cloutman, D. G., 1978, *J. Parasitol.*, v. 64 (1), 170-172
Cleidodiscus pricei on *Ictalurus platycephalus* (gills), significant difference in intensity among different host age groups but not between males and females, seasonal abundance, possible role of immunity: Lake Norman, North Carolina

Immunity

- Coelho, P. M. Z.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (1), 113-114
Schistosoma mansoni, transplantation of adult worms from mice to portal system of Cebus monkeys immunized against mouse red blood cells resulted in reduced recovery of male worms compared to control group

Immunity

- Cohen, S., 1974, *Ciba Found. Symp.*, n.s. (25), 3-20
 immune response to parasites, review

Immunity

- Cohen, S., 1976, *Immunol. Parasit. Infect.*, 18-34
 immune effector mechanisms, review

Immunity

- Cohen, S., 1976, *Immunol. Parasit. Infect.*, 35-46
 mechanisms of parasite survival in immune hosts, review

Immunity

- Cohen, S., 1978, *Israel J. Med. Sc.*, v. 14 (5), 537-541
 malaria, mechanisms of acquired immunity to erythrocytic stage, symposium presentation

Immunity

- Cohen, S., 1979, *Proc. Roy. Soc. London, s. B., Biol. Sc.* (1153), v. 203, 323-345
 immunity to malaria with emphasis on vaccination, review lecture

Immunity

- Colley, D. G.; Lewis, F. A.; and Goodgame, R. W., 1978, *J. Immunol.*, v. 120 (4), 1225-1232
Schistosoma mansoni, human, induction of suppressor cell activity by schistosome antigen preparations and concanavalin A, immunoregulatory responses observed could be important in establishment of stable chronic infection state by modulating extent of egg-induced granuloma formation and preventing rejection of adult worms

Immunity

- Colli, C.; and Schantz, P. M., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (2), 59-68
Echinococcus granulosus, mice and *Meriones unguiculatus*, effect of egg dose, host age, and host sex on susceptibility to primary infection, increased resistance with increased age but no differences with sex

Immunity

- Conley, F. K., 1979, *J. Nat. Cancer Inst.*, v. 63 (5), 1237-1244
Toxoplasma gondii infection or *Corynebacterium parvum* treatment, influence on incidence of tumor metastasis to mouse brain

Immunity

- Copeland, D.; and Grove, D. I., 1979, *Internat. J. Parasitol.*, v. 9 (3), 205-211
Toxoplasma gondii, *Trichinella spiralis*, concurrent infections in mice, intestinal worm burdens, muscle worm burdens, worm fecundity, resistance to newborn larvae, small bowel pathology, muscle inflammation, eosinophil levels, numbers of toxoplasma cysts in brain

Immunity

- Cornille Broegger, R.; et al., 1978, *Bull. World Health Organ.*, v. 56 (4), 579-600
Plasmodium falciparum, *P. malariae*, changing patterns in humoral immune response before, during, and after application of control measures: Nigeria

Immunity

- Cornille-Broegger, R.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (2), 173-183
 malaria in normal subjects and those with sickle cell trait, determination of plasma immunoglobulins and antimalarial antibodies, findings suggest that during infancy early phagocytosis of parasitized cells led to enhanced processing of antigen and hence earlier immune response to sickle cell trait

Immunity

- Corradi, J. C., 1979, *Acta Bioquim. Clin. Latinoam.*, v. 13 (3), 277-281
 sera positive for Chagas-Mazza or toxoplasmosis or both, adsorption with 3 lines of *Trypanosoma cruzi*, immunofluorescent titers, no cross reactions between T. cruzi and toxoplasmosis: Provincia de San Luis

Immunity

- Cox, F. E. G., 1978, *Nature, London* (5669), v. 274, 312
 malaria, piroplasmosis, and endotoxin, brief review of recent work

Immunity

Cox, F. E. G., 1978, *Parasitology*, v. 76 (1), 55-60

Plasmodium vinckei, *Babesia microti*, heterologous immunity, simultaneous elimination of the two species from blood of doubly infected mice

Immunity

Cox, J. C.; Hamilton, R. C.; and Attwood, H. D., 1979, *J. Protozool.*, v. 26 (2), 260-265
Encephalitozoon cuniculi, rabbits infected orally, intratracheally, or intravenously, serum antibody levels, excretion of spores in urine, frequency of organisms in several organs and severity of lesions

Immunity

Cripps, A. W.; and Adams, D. B., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (2), 225-235

Trichostrongylus colubriformis, sheep, immunoglobulin and albumin concentrations and flow of intestinal lymph, anti-worm antibody titres in intestinal lymph and serum, observations indicate occurrence of local antibody response in intestine of immune sheep

Immunity

Cripps, A. W.; and Rothwell, T. L. W., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (1), 99-106

Trichostrongylus colubriformis, local immune response examined by introducing 4th stage larvae in Thiry-Vella loops in worm-free and resistant sheep

Immunity

Cuperlovic, K.; Altaif, K. I.; and Dargie, J. D., 1978, *Research Vet. Sc.*, v. 25 (1), 125-126

sheep with hemoglobin AA showed better antibody response to some non-parasitic antigens than those with hemoglobin BB, results indicate that greater resistance of the former sheep to gastrointestinal nematodes is a reflection of superior immunological competence

Immunity

Dargie, J. D.; et al., 1979, *Parasitology*, v. 78 (3), 271-286

Trypanosoma congolense-infected Ndama and Zebu cattle, red cell kinetics, concluded that anemia and its underlying processes are broadly in line with number of parasites in blood and that superior resistance of Ndama cattle lies in ability to control parasitemia rather than capacity to mount more efficient erythropoietic response

Immunity

Darip, M. D.; Sirisinha, S.; and Lamb, A. J., 1979, *Proc. Soc. Exper. Biol. and Med.*, v. 161 (4), 600-604

Angiostrongylus cantonensis, vitamin A-deficient rats, reduced non-specific local resistance at site of entry, reduced specific immunity to reinfection

Immunity

Davis, P. J.; Parry, S. H.; and Porter, P., 1978, *Immunology*, v. 34 (5), 879-888

Eimeria tenella, chickens, serological and secretory immune responses evaluated in terms of various anti-coccidial activities, results suggest that intestinal secretory IgA system plays essential role in protective immune response

Immunity

Davis, P. J.; and Porter, P., 1979, *Immunology*, v. 36 (3), 471-477

Eimeria tenella, proposed mechanism for secretory IgA-mediated inhibition of cell penetration and intracellular development

Immunity

Day, K. P.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 217-239

Nippostrongylus brasiliensis vs. *Nematospiroides dubius*, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses

Immunity

Dean, D. A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 951-956

Schistosoma mansoni, mice receiving unisexual primary infection did not develop detectable resistance to reinfection, mice receiving bisexual primary infection developed high degree of resistance

Immunity

Dean, D. A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 957-965

Schistosoma mansoni, mice, resistance to secondary infection, evidence for correlation between egg deposition and worm elimination

Immunity

Deelder, A. M.; Claas, F. H. J.; and De Vries, R. R. P., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 321-322 [Letter]

Schistosoma mansoni, mice with strain differences in H-2 gene complex, no differences in worm burden but considerable differences in mortality and in antibody titer

Immunity

Desowitz, R. S.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1148-1151

Dirofilaria immitis-infected dogs with severe adverse reactions after diethylcarbamazine treatment, rapid and marked decrease in precipitating and reaginic antibodies, possible model for reactions in human filariasis

Immunity

Dessaint, J. P.; et al., 1979, *Cellular Immunol.*, v. 46 (1), 12-23

binding characteristics of IgE on surface of rat macrophages, characterization of IgE on surface of macrophages from *Schistosoma mansoni*-infected rats

Immunity

- Dessaint, J. P.; et al., 1979, Cellular Immunol., v. 46 (1), 24-34
immunologic release of lysosomal enzyme from macrophages by IgE and anti-IgE in the rat, new mechanism of macrophage activation, implications for mechanism of antibody-dependent macrophage cytotoxicity in rat schistosomiasis

Immunity

- Devereux, D.; and Ash, L. R., 1978, J. Parasitol., v. 64 (1), 115-118
Brugia pahangi in female *Meriones unguiculatus*, effects of host age at inoculation on prepatent periods, microfilaremiæ, and worm burdens, results demonstrate increased susceptibility with age

Immunity

- Dharmkrong-at, A.; Uahkowithchai, V.; and Sirisinha, S., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 330-337
Angiostrongylus cantonensis, rats (exper.) humoral and cell-mediated immune responses to somatic and metabolic antigens analyzed using hemagglutination, macrophage migration inhibition, and cutaneous hypersensitivity tests

Immunity

- D'hondt, J.; et al., 1979, Nature, London (5739), v. 282, 613-615
Trypanosoma brucei subsp., trypanocidal activity of normal human serum: Ca^{2+} is essential cofactor, ^{42}Ca macroglobulin might function as Ca^{2+} carrier, suppression by D-glucose, D-fructose, and D-mannose, glycerol has opposite effect

Immunity

- D'iakova, T. E.; and Leutskaia, Z. K., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 52-59
Ascaridia galli, immunization of normal chickens and chickens with avitaminosis A, mucopolysaccharide content in tissues compared with unimmunized controls

Immunity

- Diffley, P., 1978, Infect. and Immun., v. 21 (2), 605-612
Trypanosoma brucei subsp., comparative immunological analysis of host plasma proteins bound to bloodstream forms (presence, location, host specificity, identity, and quantity)

Immunity

- Diffley, P.; and Honigberg, B. M., 1978, J. Parasitol., v. 64 (4), 674-681
Trypanosoma congolense, identification and quantitation of host albumin, nonspecific IgG, and complement (C3) bound to surface of bloodstream forms, possible functions for these surface-bound plasma proteins

Immunity

- Digeon, M.; et al., 1979, Clin. and Exper. Immunol., v. 35 (3), 329-337
Schistosoma mansoni, mice, IgG and IgM but not IgA anti-schistosome antibodies, circulating immune complexes containing schistosomal antigen, glomerular mesangial deposits of IgA, IgM, and C3

Immunity

- Diggs, C. L., 1973, Immunol. Series, v. 2, 169-196
malaria, experimental approaches to study of acquired immunity, review

Immunity

- Dineen, J. K.; Gregg, P.; and Lascelles, A. K., 1978, Internat. J. Parasitol., v. 8 (1), 59-63
Trichostrongylus colubriformis, colostrum-fed vs. colostrum-deprived lambs, vaccination with irradiated larvae at weaning, results do not support proposition that feedback inhibition mediated by maternal antibody may suppress response, however lambs segregated into 'responders' and 'non-responders' suggesting that genetically determined factors play important role in responsiveness of lambs, globule leucocytes may be involved in resistance mechanism but probably not eosinophils or neutrophils

Immunity

- Dobrzanskaia, R. S., 1978, Vestnik Dermat. i Venerol. (5), 80-84
Leishmania tropica minor and L. t. major, production of large quantities of hyperimmune sera by inoculating rabbits

Immunity

- Dobson, C., 1972, Immun. Animal Parasites, 191-222
immune response to gastrointestinal helminths, review

Immunity

- Dobson, C.; and Owen, M. E., 1978, Internat. J. Parasitol., v. 8 (5), 359-364
Nematospiroides dubius in different mouse strains, sex resistance, passive transfer experiments

Immunity

- Docampo, R.; et al., 1979, J. Protozool., v. 26 (2), 301-303
Trypanosoma cruzi bloodstream forms, increase in respiration in presence of acetate, acetate oxidation took place via tricarboxylic acid cycle and involved antimycin A-sensitive respiratory pathway, immune sera had no effect on oxygen uptake

Immunity

- Dodd, B. E.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 501-505
Trypanosoma brucei brucei-infected rabbits, application of build-up anti-globulin technique for detection of immunoglobulin on surface of red cells

Immunity

- Doenhoff, M.; et al., 1978, Immunology, v. 35 (5), 771-778
Schistosoma mansoni, T-cell deprived mice have substantially fewer parasite eggs in their feces and marginally fewer eggs in their tissues than similarly infected immunologically-intact control animals, administration of serum from normal mice with chronic infections partially restored egg excretion rate and also resulted in increased number of eggs being deposited in liver and intestine

Immunity

Doenhoff, M.; et al., 1978, J. Helminth., v. 52 (3), 173-186

Schistosoma mansoni, mice, demonstration of resistance to reinfection using model system that involves perfusion of animals within 3 weeks of challenge at which time challenge-derived organisms are morphologically distinguishable from those of the primary infection which induced the resistance, comparison with more widely used assays

Immunity

Doenhoff, M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 260-273

Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-S. mansoni egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Immunity

Doenhoff, M. J.; and Bain, J., 1978, Clin. and Exper. Immunol., v. 33 (2), 232-238

Schistosoma mansoni-infected mice deprived of their T-cells, relative lack of efficacy of potassium antimony tartrate, demonstration of drug-antiserum synergy

Immunity

Doenhoff, M.; and Long, E., 1979, Parasitology, v. 78 (2), 171-183

Schistosoma mansoni, mice, mechanisms of resistance investigated by T-cell deprivation, variety of other immunosuppressive treatments, and several other in vivo methods

Immunity

Doy, T. G.; Hughes, D. L.; and Harness, E., 1978, Research Vet. Sc., v. 25 (1), 41-44

Fasciola hepatica, rats, 3-week-old initial infection results in high degree of immunity to subsequent challenge, this resistance could be detected within 48 h of challenge and was a true immunity and not an alteration in migratory behavior, eosinophils were prevalent in lamina propria of small intestine and increased markedly after challenge

Immunity

Draeger, N.; and Mehlitz, D., 1978, Tropenmed. u. Parasitol., v. 29 (2), 223-233

Trypanosoma spp., wildlife, prevalence determined by parasitological and/or serological techniques, correlations with high and low tsetse fly density areas (for buffalo and lechwe) and with host age (for buffalo): Northern Botswana

Immunity

Dubey, J. P., 1978, J. Am. Vet. Med. Ass., v. 173 (2), 192-197

Isospora ohioensis, dogs (epithelium of small intestine, cecum, and colon) (exper.), pathology in young pups, pathogenicity was greatest in newborn and suckling pups whereas older pups (40-384 days at first inoculation) acquired immunity within 1 week

Immunity

Dubey, J. P.; and Frenkel, J. K., 1974, Vet. Path., v. 11 (4), 350-379

Toxoplasma gondii, cats (exper.), immunity, effects of host age and corticosteroid administration; excretion of T. gondii, Isospora felis, and I. rivolta oocysts from cats previously infected and challenged with all three coccidia

Immunity

Duffus, W. P. H.; et al., 1978, Infect. and Immun., v. 22 (2), 492-501

Theileria parva, Trypanosoma rhodesiense, ⁵¹Cr-labeled chicken erythrocytes coated with protozoal antigens form suitable targets for bovine antibody-dependent cell-mediated cytotoxicity assays

Immunity

Duffus, W. P. H.; Wagner, G. G.; and Preston, J. M., 1978, Clin. and Exper. Immunol., v. 34 (3), 347-353

Theileria parva-infected bovine lymphoid cell culture line (C2), no specific parasite antigen detected on C2 cell surface, no detectable surface immunoglobulin or secretion of immunoglobulins into tissue culture medium, C2 cells found to share membrane antigen with normal calf thymus cells and to possess strong transplantation antigen, C2 cells can act as weak stimulators in mixed leucocyte reaction

Immunity

Duncombe, V. M.; et al., 1979, Am. J. Clin. Nutrition, v. 32 (3), 553-558

Nippostrongylus brasiliensis, rats (exper.), effect of iron and protein deficiency on acquired resistance to reinfection, results demonstrate that this deficiency profoundly alters host/helminth relationship and enhances parasite survival and propagation, suggested that anthelmintic programs be accompanied by nutritional supplementation

Immunity

Dusanic, D. G., 1978, Internat. J. Parasitol., v. 8 (4), 297-304

Trypanosoma musculi, precipitin responses of infected mice to exoantigens and cellular antigens

Immunity

Dusanic, D. G., 1979, Internat. J. Parasitol., v. 9 (6), 577-583

Trypanosoma lewisi, rats, Trypanosoma musculi, mice, precipitin responses of immune hosts repeatedly infected, antigenic relationships of these 2 trypanosome species, microimmunodiffusion, crossed immunoelectrophoresis (CIE), and tandem CIE analyses

Immunity

Dutoit, E.; et al., 1979, Ann. Parasitol., v. 54 (4), 465-474

Trichinella spiralis in CBA mice and Wistar rats, influence of prostaglandins and vasoactive amines on intestinal phase of experimental infection

Immunity

Dykova, I.; and Lom, J., 1978, J. Fish Biol., v. 12 (3), 197-202

Henneguya spp., developmental stages in hosts, histopathological changes in fish gill, inflammatory reaction may be a temperature dependent immune response: South Bohemia

Immunity

- Eling, W., 1978, Tropenmed. u. Parasitol., v. 29 (1), 77-84
Plasmodium berghei, mice, fading of immunity

Immunity

- Eling, W., 1978, Tropenmed. u. Parasitol., v. 29 (2), 204-209
Plasmodium berghei-immunized mice, parasite survival in relation to time and host strain

Immunity

- Eling, W. M. C., 1979, Exper. Parasitol., v. 47 (3), 403-409
Plasmodium berghei, mice, immunodepressive effect of antithymocyte serum on induction of immunity

Immunity

- Elliot, A., 1972, Rev. Peruana Med. Trop., v. 1 (2), 78-83
Fasciola hepatica, immunologic observations on 5 persons with fascioliasis, higher antibody titers found during invasive phase than were found during biliary phase

Immunity

- El-On, J.; Schnur, L. F.; and Greenblatt, C. L., 1979, Exper. Parasitol., v. 47 (2), 254-269
Leishmania donovani, excreted factor from promastigotes, physicochemical, immunological, and biological characterization

Immunity

- El-Sawy, M.; et al., 1979, NATO Advanced Study Inst. Ser., s. A, Life Sc., v. 24, 277-279
 schistosomiasis in patients with and without neurological symptoms, circumoval precipitin test, indirect haemagglutination test, and immunoglobulins in serum and cerebrospinal fluid

Immunity

- Ershov, V. S.; and Naumycheva, M. I., 1978, Vestnik Sel'skokhoz. Nauki (266) (11), 13-20
 helminth-parasitized animals, sensitization, tests for IgE, review

Immunity

- Esuruoso, G. O., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 233-244
Trypanosoma vivax, Zebu vs. Muturu cattle (exper.), differences in innate resistance, comparison of haematological, clinical, and serological responses

Immunity

- Facer, C. A.; Bray, R. S.; and Brown, J., 1979, Clin. and Exper. Immunol., v. 35 (1), 119-127
Plasmodium falciparum, Gambian children, direct Coombs antiglobulin reactions, incidence and class specificity, results indicate that sensitization of non-parasitized erythrocytes contributes to pathogenesis of anemia

Immunity

- Fakunle, Y. M.; Oduloju, A. J.; and Greenwood, B. M., 1978, Clin. and Exper. Immunol., v. 33 (2), 239-243
 tropical splenomegaly syndrome, T- and B-lymphocyte subpopulations in patients

Immunity

- Fauve, R. M., 1978, Pharmacol. Immunoreg., 319-334
 mice, induction of inflammatory reactions with non-biodegradable, non-diffusible, and non-antigenic substances at site distant from site of pathogen proliferation or persistence, increased resistance to various pathogens including *Schistosoma mansoni*, fraction extracted from granuloma is responsible at least in part for this increased resistance

Immunity

- Feldmann, M., 1976, Immunol. Parasit. Infect., 1-17
 cellular basis of immune sensitization, review

Immunity

- Ferrante, A.; Drew, P. A.; and Jenkin, C. R., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (6), 741-745
Trypanosoma lewisi, rats, method for assay of ablastin in serum, measurement of incorporation of ³H-TdR into T. lewisi DNA

Immunity

- Ferrante, A.; and Jenkin, C. R., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (2), 201-209
Trypanosoma lewisi, rats, importance of monocytic phagocytic system in elimination of parasites during course of infection, relative importance of liver and spleen in removal of parasites, importance of specific antibody in uptake of parasites by liver, production of specific antibody during course of infection, effect of antibody and complement on parasites, fate of trypanosomes within chambers planted into peritoneal cavities of normal and immune rats

Immunity

- Ferrante, A.; and Thong, Y. H., 1979, Internat. J. Parasitol., v. 9 (6), 599-601
Naegleria fowleri, antibody-induced capping and endocytosis of surface antigens, may allow amoeba to resist action of host's immune system

Immunity

- Flemmings, B.; and Diggs, C., 1978, Infect. and Immun., v. 19 (3), 928-933
Trypanosoma rhodesiense, antibody-dependent cytotoxicity against trypanosomes mediated through alternative complement pathway

Immunity

- Frankenburg, S.; and Greenblatt, C. L., 1978, Israel J. Med. Sc., v. 14 (5), 582-589
Plasmodium berghei-infected mice, cellular changes: differential counts of bone marrow, 3-day cultures of bone marrow, [³H]thymidine uptake by splenocytes and bone marrow cells, interaction of adherent and nonadherent splenic and bone marrow cells, symposium presentation

Immunity

- Freeman, R. R.; and Parish, C. R., 1978, Clin. and Exper. Immunol., v. 32 (1), 41-45
Plasmodium berghei, *P. yoelii*, mice, numbers of 'background' plaque-forming cells secreting IgM specific for either sheep or horse erythrocytes elevated in spleens during infection or in spleens of uninfected mice injected with non-infectious extracts of parasitized mouse red blood cells, results provide corroborating evidence for hypothesis that B-cell mitogen is associated with blood stage of malaria parasites, possible involvement in immunosuppression

Immunity

- Freeman, R. R.; and Parish, C. R., 1978, Immunology, v. 35 (3), 479-484
Plasmodium, spleen cell changes during fatal *P. berghei* vs. those during self-limiting *P. yoelii* infections in mice, protective immunity is associated with marked and sustained increases in numbers of Ig⁺ and Thy-1.2⁺ spleen cells and in fatal infections these proliferative responses are apparently suppressed

Immunity

- Frenkel, J. K., 1978, Fed. Proc., v. 37 (7), 2063-2064
 immune responses to nonviral intracellular infections of hamsters, symposium presentation

Immunity

- Frenkel, J. K.; and Caldwell, S. A., 1975, J. Infect. Dis., v. 131 (3), 201-209
Toxoplasma gondii, *Besnoitia jellisoni*, *Listeria*, and virus infections in mice and hamsters, challenge with homologous and heterologous species, components of specific immunity and nonspecific resistance

Immunity

- Friedberg, W.; et al., 1979, J. Parasitol., v. 65 (1), 61-64
Hymenolepis nana, intestinal tissue phase in actively immunized mice, histopathology of reaction is consistent with that of humoral immunity

Immunity

- Fujisaki, K., 1978, National Inst. Animal Health Quart., v. 18 (1), 27-38
Haemaphysalis longicornis, rabbits subjected to series of infestations with adult female ticks, development of acquired resistance and precipitating antibody (7S class of immunoglobulin)

Immunity

- Fujiwara, M.; and Kishimoto, S., 1979, J. Immunol., v. 123 (1), 263-268
 aged (vs. young adult) mice exhibit depressed IgE, IgG, and IgM antibody response to DNP-*Ascaris* and depressed avidity of IgE antibody for DNP determinant

Immunity

- Funayama, G. K.; and Prado, J. C., jr., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (2), 75-81
Trypanosoma cruzi, strain isolated from *Triatoma infestans* captured in Vitichi, Bolivia, severe pathogenicity for mice, mice recovered from infection have high resistance against reinfection by the Y strain, Bolivia strain easily cultured and regularly infective for several triatomines

Immunity

- Furmaga, S.; Gundlach, J. L.; and Sobieszewski, K., 1975, Acta Parasitol. Polon., v. 23 (1-11), 159-175
Fasciola hepatica-infected rabbits and sheep, white blood cell picture during course of infection

Immunity

- Furuya, M., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (6), 350-366
Trypanosoma gambiense, mice, immunogenic (protective) activity of antigens prepared from nontreated and trypsin-pretreated living parasites, immune responses in mice immunized with subcellular components of parasites

Immunity

- Gaafar, S. M., 1972, Immun. Animal Parasites, 273-285
 immune response to arthropods, review

Immunity

- Gabriel, B. W.; and Justus, D. E., 1979, Internat. Arch. Allergy and Applied Immunol., v. 60 (3), 275-285
Trichinella spiralis, mice, quantitation of immediate and delayed hypersensitivity responses, correlation with worm expulsion

Immunity

- Ganguly, N. K.; et al., 1979, Indian J. Med. Research, v. 69, 412-416
Entamoeba histolytica, cellular reactions to amoebic antigen in patients with amoebic liver abscess and intestinal amoebiasis

Immunity

- Gardner, I. D.; and Remington, J. S., 1978, J. Immunol., v. 120 (3), 939-943
Toxoplasma gondii, mice, effect of age on humoral antibody response and on development of tissue cysts, results suggest age-related decrease in early immune response allows increased multiplication of organisms leading to increased cyst numbers or death

Immunity

- Gemmell, M. A., 1976, Immunol. Parasit. Infect., 333-358
 immunology and regulation of cestode zoonoses, review

Immunity

- Gemmell, M. A.; and Macnamara, F. N., 1972, Immun. Animal Parasites, 235-272
 immune response to tissue cestodes, review

Immunity

- Gerken, S. E.; et al., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 212-217
Schistosoma mansoni, scanning electron microscopy of coarse precipitates formed around cercariae by normal non-inactivated guinea pig serum, phenomenon is directly linked to activity of complement

Immunity

- Giannini, M. S.; and D'Alesandro, P. A., 1978, Science (4359), v. 201, 916-918
Trypanosoma lewisi forms caps at 0°C when incubated with rabbit IgG directed against surface IgG from rat host, host IgG (which is specific for parasite antigens) probably does not cause capping of these antigens in vivo

Immunity

- Giannini, S. H.; and D'Alesandro, P. A., 1979, *Exper. Parasitol.*, v. 47 (3), 342-355
Trypanosoma lewisi, accumulation of antigen-specific host IgG as component of surface coat during course of infection in rat

Immunity

- Gibbs, H. C., 1979, *Am. J. Vet. Research*, v. 40 (2), 227-231
 gastrointestinal nematodes, calves, winter survival of larvae on pasture more important than carrier calves as source of infection; calves surviving clinical disease are resistant to infection the following year: Maine

Immunity

- Gill, B. S., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (2), 215-219
Trypanosoma evansi, mice treated with suramin for patent infection developed partial and transient immunity against weak but not heavy challenge infection, poor grade immunity was ascribed to weakness of trypanosome antigen

Immunity

- Gillet, J.; and Herman, F., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (6), 655-677
Plasmodium berghei berghei, erythrocytic forms inoculated into mouse embryos, development, reproduction, mice at birth had either no evidence of infection or had overwhelming parasitemia with extended period of parasite development

Immunity

- Gillet, J.; and Herman, F., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (6), 679-681
Trypanosoma equiperdum, development in mouse embryos, no resistance by host animals, fatal infections in all

Immunity

- Gillet, J.; and Herman, F., 1973, *Ann. Soc. Belge Med. Trop.*, v. 53 (1), 1-6
Babesia rodhaini, inoculation into mouse embryos on 15th day of gestation, delayed development

Immunity

- Gisler, R. H., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 111-126
 cellular regulation of immune responses, colloquium presentation

Immunity

- Glauert, A. M.; et al., 1978, *J. Cell Sc.*, v. 34, 173-192
Schistosoma mansoni, mechanism of antibody-dependent eosinophil-mediated damage to schistosomula in vitro, phase-contrast and electron microscopic study

Immunity

- Glickman, L.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 29-35
Toxocara canis, 2-year-old boy with concurrent ocular and visceral toxocariasis, case report, parasite-specific antibodies in serum and aqueous humor, response to treatment with prednisone and thiabendazole

Immunity

- Gold, D.; et al., 1978, *J. Parasitol.*, v. 64 (5), 866-873
Entamoeba histolytica, serologic and cell-mediated immune responses of *Mesocricetus auratus* exposed to 2 parasite strains, indirect hemagglutination test, lymphocyte transformation, migration inhibition of macrophages, some evidence of immunosuppression

Immunity

- Gold, D.; and Kagan, I. G., 1978, *J. Parasitol.*, v. 64 (5), 937-938
Entamoeba histolytica, susceptibility of various strains of mice to liver inoculation, infections were obtained in 6 of 9 strains but no strain was consistently susceptible

Immunity

- Goldman, M.; and Pipano, E., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 85-87
Theileria annulata, specific IgM and IgG antibodies detected in immunized or infected cattle

Immunity

- Golenser, J.; et al., 1978, *Israel J. Med. Sc.*, v. 14 (5), 606-610
Plasmodium berghei, immunization of chloroquinized rats against sporozoites by bites of infected mosquitoes: influence of number of exposures to infected mosquitoes on antibody titers and protection; influence of exposure to different numbers of infective mosquitoes on antibody production and protection; specificity of antiplasmodial antibodies; influence of passive transfer of sera from rats immune to sporozoites or to erythrocytic forms on development of sporozoites, symposium presentation

Immunity

- Golinska, Z., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (12), 881-883
Trichinella spiralis, *T. pseudospiralis*, mice (exper.), percent composition of T and B lymphocytes in peripheral blood

Immunity

- Gonzalez-Cappa, S. M.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (4), 221-231
Trypanosoma cruzi epimastigotes in diphaseic medium, specific rabbit immune serum altered mobility and morphology and inhibited growth

Immunity

- Goodgame, R. W.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1174-1180
Schistosoma mansoni, patients with hepatosplenic vs. intestinal disease, humoral immune responses, no evidence of alterations which might contribute to pathogenesis of hepatosplenic disease

Immunity

- Goodger, B. V., 1977, *Ztschr. Parasitenk.*, v. 53 (1), 47-52
Babesia argentina, acute cattle infection, cryofibrinogen complex in plasma contained proteins from erythrocytes and parasites plus fibrinogen and related proteins; analysis made using rabbit antisera against fractions of complex

Immunity

- Goodman, H. C., 1978, *Ann. Immunol.*, v. 129C (2-3), 267-274
immunology and tropical diseases, challenges and opportunities, WHO Special Programme for Research and Training in Tropical Diseases

Immunity

- Goodrich, B. S.; and Murray, M. D., 1978, *Internat. J. Parasitol.*, v. 8 (4), 313-320
Ixodes holocyclus, association of toxin with salivary glands, increasing toxin content of salivary glands with length of time of feeding on mice, effect on toxin content of salivary glands of interruption to feeding, effect of passive immunization of mice on resistance of host to toxin and on toxin production, effect on toxin production of feeding on non-immune and immune bandicoots

Immunity

- Goose, J., 1978, *Nature*, London (5677), v. 275, 216-217
Fasciola hepatica, excretory/secretory products, toxicity to rat lymphoid splenic cells, reduction of immune adherence of peritoneal cells to flukes in vitro, postulated that *F. hepatica* produces substances which are toxic to its host's lymphocytes and that these substances may protect the parasite from its host's immune defenses

Immunity

- Gordon, J. R.; and Allen, J. R., 1979, *Canad. J. Comp. Med.*, v. 43 (4), 380-383
Dermacentor andersoni-infected guinea pigs, primary and secondary infestations, basophil response in blood and bone marrow, possible significance in relation to acquired resistance

Immunity

- Goven, A. J., 1979, *Internat. J. Parasitol.*, v. 9 (4), 345-349
Nippostrongylus brasiliensis, sensitized rats challenged with varied larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden

Immunity

- Goven, A. J.; and DeBuysscher, E. V., 1979, *Am. J. Vet. Research*, v. 40 (10), 1469-1471
Trichinella spiralis-infected swine, relation between intestinal phospholipase B activity and numbers of blood eosinophils

Immunity

- Green, T. J.; and Kreier, J. P., 1978, *Infect. and Immun.*, v. 19 (1), 138-145
Plasmodium berghei in inbred rats, macrophage-cytophilic antibody specific for malarial antigens, identification and characterization, demonstration of role in protection, acts synergistically with opsonizing antibody

Immunity

- Greenblatt, C. L.; et al., 1978, *Israel J. Med. Sc.*, v. 14 (6), 712-717
summing-up of symposium on immunology and immunopathology of malaria

Immunity

- Greenwood, B. M.; and Oduloju, A. J., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 408-411
Trypanosoma gambiense extract, mitogenic activity, possible role of mitogenic factor in pathogenesis of hypergammaglobulinemia of African trypanosomiasis

Immunity

- Gress, F. M.; and Lumsden, R. D., 1976, *Rice Univ. Studies*, v. 62 (4), 111-143
Paragonimus kellicotti, tegumental surface membrane, fine structure, topochemistry (rich in acidic carbohydrate), possible relationship to ability of flukes to survive in immunocompetent host

Immunity

- Grieve, R. B.; Gebhardt, B. M.; and Bradley, R. E., sr., 1979, *Internat. J. Parasitol.*, v. 9 (4), 275-279
Dirofilaria immitis, dogs (exper.), cell-mediated (lymphocyte transformation assay) and humoral (indirect hemagglutination assay) immune responses, diminished mitogen responsiveness

Immunity

- Griffin, B. R.; and Davis, E. M., 1978, *J. Fish. Research Bd. Canada*, v. 35 (9), 1186-1190
Myxosoma cerebralis-infected *Salmo gairdneri*, detection of circulating antibodies with indirect fluorescent antibody test

Immunity

- Grove, D. I.; and Civil, R. H., 1978, *Exper. Parasitol.*, v. 44 (2), 181-189
Trichinella spiralis, mice, BCG alters host-parasite relationship producing retention of adult worms in gut, reduction in severity of partial villous atrophy, and increased non-specific resistance to systemic larval phase of parasite

Immunity

- Grove, D. I.; Davis, R. S.; and Warren, K. S., 1979, *Parasitology*, v. 79 (3), 303-316
Brugia malayi, microfilariemia in mice as model for study of host response to microfilariiae

Immunity

- Grove, D. I.; Valeza, F. S.; and Cabrera, B. D., 1978, *Bull. World Health Organ.*, v. 56 (6), 975-984
Wuchereria bancrofti, dynamics of filariasis in village inhabitants, clinical, parasitological, immunological, and social aspects: village of Paraiso, Province of Catanduanes, Philippines

Immunity

- Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (19-28), 285-306
Fasciola hepatica, rabbits, serological response, dynamics in relation to intensity and duration of infection and to superinfection (complement fixation, passive hemagglutination, gel precipitation, and immunoelectrophoresis with various antigens)

Immunity

- Hafizi, A.; and Mobabber, F. Z., 1978, Clin. and Exper. Immunol., v. 33 (3), 389-394
Toxoplasma gondii, mice, reversal of effect of cyclophosphamide by passive immunization, data indicate that antibody plays important role in establishing infection-immunity (premunition) in this system

Immunity

- Hall, B. T.; et al., 1979, Exper. Parasitol., v. 47 (3), 305-312
Trichinella spiralis, responses of spleen cells in mixed lymphocyte cultures (depressed) and to T-independent immunogen (enhanced) in vitro parallel alterations in immune responsiveness in vivo

Immunity

- Hammerberg, B.; and Williams, J. F., 1978, J. Immunol., v. 120 (3), 1033-1038
Taenia taeniaeformis, factors present in cystic bladder fluid of metacestodes and released by parasites maintained in vitro are shown to interact nonimmunologically with the complement system in vitro and in vivo, possibility that local consumption of complement around metacestode in vivo could contribute to successful evasion of inflammation and immune rejection during infection

Immunity

- Hammerberg, B.; and Williams, J. F., 1978, J. Immunol., v. 120 (3), 1039-1045
Taenia taeniaeformis, complement-fixing activity washed from surface of metacestodes and characterized physicochemically, active substance may be polysulfated proteoglycan, location at host-parasite interface may have significance in evasion of immune rejection

Immunity

- Handman, E.; and Burgess, A. W., 1979, J. Immunol., v. 122 (3), 1134-1137
Leishmania tropica, uptake and killing by macrophages, stimulation by granulocyte-macrophage colony-stimulating factor

Immunity

- Handman, E.; Ceredig, R.; and Mitchell, G. F., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (1), 9-29
Leishmania tropica, susceptibility in intact and nude mice of various genotypes and at level of macrophage in vitro, possible nature of immunological defect responsible for persistent disease in susceptible mouse strains

Immunity

- Handman, E.; and Greenblatt, C. L., 1977, Ztschr. Parasitenk., v. 53 (2), 143-147
Leishmania enriettii in vitro grows well in guinea pig macrophages but fails to grow in mouse macrophages; medium containing excretory factors from *L. enriettii* culture (conditioned medium) promotes infection in mouse macrophages but similar medium from *L. tropica* does not; immune precipitation of medium by anti-*Leishmania* serum cancels infection-promoting effect; *L. tropica* infection of guinea pig macrophages enhanced by homologous medium

Immunity

- Handman, E.; and Spira, D. T., 1977, Ztschr. Parasitenk., v. 53 (1), 75-81
Leishmania tropica system of prolonged culture of amastigotes in mouse macrophages, dynamics of division rate and macrophage infection; macrophages from immune mice inferior for culture

Immunity

- Hansen, R.; de Silva, S.; and Strickland, G. T., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 574-578
Plasmodium berghei, IgM and IgG antisporezoite antibodies in mice immunized with irradiation-attenuated sporozoites, detection by indirect fluorescent antibody test, correlation with protection, some cross-reaction with blood stage antigens but test should still prove useful

Immunity

- Hanson, W. L., 1976, Immunol. Parasit. Infect., 222-234
 American trypanosomiasis, immunology, review

Immunity

- Haque, A.; et al., 1978, Parasitology, v. 76 (1), 61-75
Dipetalonema viteae, hamsters, suppression of microfilaria production by antiserum from infected animals, suppression or enhancement of microfilaria production by immunization with certain parasite extracts, implications for mechanism of latent (or occult) infections

Immunity

- Harris, W. G.; Friedman, M. J.; and Bray, R. S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 427-430
Entamoeba histolytica, human, prevalence, parasite-specific IgG and IgM, and total and parasite-specific IgE during 4-month wet season: The Gambia

Immunity

- Hart, P. A., 1979, Lysosomes Applied Biol. and Therap., v. 6, 409-423
 phagosome-lysosome fusion in macrophages, possible role in intracellular fate of ingested microorganisms, review including some information on parasitic protozoa

Immunity

- Hartmann, D. P.; and Meerovitch, E., 1979, Clin. Immunol. and Immunopathol., v. 14 (4), 467-473
Entamoeba histolytica, evidence of autologous IgG reacting with anti-amoebic antibodies in human sera

Immunity

- Hayes, T. J., 1978, J. Parasitol., v. 64 (2), 374-376
Fasciola hepatica, rats, protective immunity to reinfection is expressed by 48 hrs after challenge

Immunity

- Hazlett, C. A.; and Tizard, I. R., 1978, Clin. and Exper. Immunol., v. 33 (2), 225-231
Trypanosoma musculi, immunosuppressive and mitogenic effects, possible relationship of mitogenesis to immunosuppression and non-specific antibody formation associated with infections

Immunity

- Heath, D. D.; and Chevis, R. A. F., 1978, J. Parasitol., v. 64 (2), 252
Taenia pisiformis, rabbits, immunity to reinfection with larvae results from initial infection, may last for 12 months or more, and is not dependent on continued survival of initial infection

Immunity

- Herberts, C., 1978, Compt. Rend. Acad. Sc., Paris, v. 286, s. D, Sc. Nat. (9), 725-728
Sacculina carcini-parasitised *Carcinus mediterraneus*, immunochemical analysis of hemolymph confirms presence of protein fraction not observed in healthy crabs, some infested crabs develop anti-*Sacculina* precipitin reaction

Immunity

- Herlich, H., 1978, Vet. Parasitol., v. 4 (2), 153-160
Trichostrongylus axei, calves, immunization failed to result in significant resistance, similar results with *Ostertagia ostertagi* but strong resistance to reinfection with *Haemonchus contortus* developed

Immunity

- Herlich, H., 1979, Am. J. Vet. Research, v. 40 (6), 774-776
Trichostrongylus axei, calves given low-degree long-term daily immunizing inoculations, infection kinetics, response to challenge exposure

Immunity

- Herlich, H.; and Douvres, F. W., 1979, Am. J. Vet. Research, v. 40 (12), 1781-1782
 gastrointestinal nematodes, cattle, immunization trials with in vitro-grown larvae or exoantigens, no treatment provided immunity to subsequent oral challenge exposure with normal infective larvae

Immunity

- Herod, E.; Clark, I. A.; and Allison, A. C., 1978, Clin. and Exper. Immunol., v. 31 (3), 518-523
 mice infected with attenuated vaccine strain of *Brucella abortus* are strongly protected against infection with *Babesia microti*, this non-specific immunity seems to be best explained by stimulation of macrophages so as to release mediator which limits intracellular replication

Immunity

- Heumann, A. M.; et al., 1979, Infect. and Immun., v. 24 (3), 829-836
Plasmodium berghei, high and low antibody responder lines of mice and their interline hybrids, antibody response induced by vaccination with irradiated parasitized erythrocytes, innate resistance and protective efficacy of vaccination, results indicate vaccination-induced immunity is essentially due to antibody response

Immunity

- Hillyer, G. V.; et al., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 149-151
Schistosoma mansoni, mice, Millipore diffusion chambers containing live adult worms implanted, produced specific antibodies but not resistance to reinfection

Immunity

- Hinz, E., 1978, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 242 (2), 268-272
Echinococcus multilocularis, HH vs. S strain, mice treated with fenbendazole as emulsion or in feed, indirect fluorescent antibody titers, compared with untreated mice

Immunity

- Hirsch, J. G.; Jones, T. C.; and Len, L., 1974, Ciba Found. Symp., n.s. (25), 205-223
Toxoplasma gondii, interactions in vitro with mouse cells, review

Immunity

- Hoerchner, F.; and Albert, H., 1979, Berl. u. Munchen. Tierarztl. Wchnschr., v. 92 (6), 107-111
Taenia saginata, calves inoculated with eggs, response to reinfection and/or drug therapy (mebendazole, praziquantel)

Immunity

- Hoerchner, F.; Zander, B.; and Gerber, H. C., 1977, Ztschr. Parasitenk., v. 52 (3), 281-288
Nippostrongylus brasiliensis in vitro, reactions to serum, lymphocytes, and peritoneal cells of immune or non-infected rats added in various combinations to culture media

Immunity

- Holmes, P. H.; et al., 1979, Immunology, v. 36 (3), 415-420
Trypanosoma brucei, method of labelling with [⁷⁵Se]-methionine, suitability for in vivo studies of immunological clearance, liver found to be principal site of phagocytosis in immune mice; method equally applicable to *T. congolense*

Immunity

- Honda, M.; et al., 1978, Virchows Arch., B Cell Path., v. 27 (4), 317-333
 macrophage chemotactic factor sharing common antigenicity with IgG from DNP-*Ascaris* extract-induced skin lesion in guinea-pig

Immunity

- Houba, V.; et al., 1979, Lysosomes Applied Biol. and Therap., v. 6, 3-29
 lysosomes, possible role in helminth immunity and immunopathology, review with emphasis on *Schistosoma mansoni*

Immunity

- Howard, R. J.; et al., 1978, Parasitology, v. 77 (3), 273-279
Trichinella spiralis, mice, effect of concurrent infection on survival and growth of *Hymenolepis microstoma* depends greatly on relative timing of the infections

Immunity

- Howell, M. J.; and Sandeman, R. M., 1979, Internat. J. Parasitol., v. 9 (1), 41-45
Fasciola hepatica, precipitate which forms when metacercariae are cultured in immune rat serum is a complex of parasite metabolic antigen and rat Ig (possibly IgG), vaccination of rats with precipitate in FCA confers significant degree of protection

Immunity

Hrzenjak, T.; et al., 1977, Vet. Arhiv, Zagreb, v. 47 (6), 317-322

Echinococcus granulosus, polyhexosamine ceramide complex antigen isolated from hydatid fluid: use in quantitative complement fixation test with *Echinococcus*-positive human sera; mice sensitized with this antigen, precipitating antibodies

Immunity

Hsü, S. Y. L.; et al., 1979, Internat. Arch. Allergy and Applied Immunol., v. 59 (4), 383-393

Schistosoma japonicum, IgE, mast cells, and eosinophils in skin of *Macaca mulatta* immunized with X-irradiated cercariae

Immunity

Hubbard, W. J., 1978, Cellular Immunol., v. 39 (2), 388-394

alpha-2 macroglobulin-enzyme complexes as suppressors of cellular activity, speculations for alpha-2 macroglobulin's role in feedback regulation of cell division and for the subversion of this regulatory function by invasive organisms (including *Schistosoma mansoni*) and tumors

Immunity

Hudson, R. J., 1975, Canad. J. Zool., v. 53 (4), 391-394

Protostrongylus stilesi, antiserum-dependent adherence of lymphoid cells from *Ovis canadensis* to first-stage larvae

Immunity

Hunponu-Wusu, O. O.; et al., 1978, J. Trop. Med. and Hyg., v. 81 (2-3), 42-44

measurement of levels of immunoglobulin M and determination of relationships to levels of malarial antibodies in normal subjects living in a holoendemic malarial region: Nigeria

Immunity

Hunter, K. W., jr.; et al., 1979, J. Immunol., v. 123 (1), 133-137

Plasmodium yoelii, defective resistance in CBA/N mice, demonstrates that X-linked gene that affects B cell function influences malarial resistance in mice

Immunity

Hussein, H. S., 1979, Exper. Parasitol., v. 47 (1), 1-12

Babesia microti, *B. hylomysci*, mice, role of spleen during infection, erythrophagocytosis, determination of phagocytic activity of reticuloendothelial system

Immunity

Imohiosen, E. A. E.; Sher, A.; and von Lichtenberg, F., 1978, Parasitology, v. 76 (3), 317-326

Schistosoma mansoni schistosomula in vitro and in mouse lung, early developmental changes studied from perspective of surface antigenic expression and parasite motility, these changes may play role in determining survival of parasites in normal or immune host

Immunity

Irvin, A. D.; Young, E. R.; and Osborn, G. D., 1978, Research Vet. Sc., v. 25 (2), 245-246

Babesia divergens, *B. major*, attempt to infect mice (nu/nu, nu/+, nu/nu splenectomized, and Lasat), neither parasite became established, *B. divergens* persisted up to 10 days, *B. major* lasted only 1 day, *B. divergens* persisted longer in splenectomized mice but absence of thymus made no apparent difference

Immunity

Ishizaka, K.; Ishizaka, T.; and Takatsu, K., 1977, Progr. Immunol. III, 378-385

B and T cells involved in IgE antibody response, regulation of IgE antibody response through B and T cells, review

Immunity

Itaya, T.; and Ovary, Z., 1979, J. Exper. Med., v. 150 (3), 507-516

Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, interaction of primed and unprimed T cells

Immunity

Ito, A., 1978, Exper. Parasitol., v. 46 (1), 12-19

Hymenolepis nana, mice immunized with initial egg inoculation become resistant not only to egg but also to mouse-derived cysticeroid challenge, cortisone acetate suppresses immune response against the cysts, a few of egg-derived tapeworms can survive 6 or more months in some of the immunized mice

Immunity

Ito, A.; and Yamamoto, M., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (4), 247-253

Hymenolepis nana, inoculation with different doses of shell-free eggs, protective immunity, stage at which protection occurred

Immunity

Ito, A.; and Yamamoto, M., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (5), 301-306

Hymenolepis nana, maturation rate in mice inoculated with eggs vs. mouse-derived cysts and in normal vs. immunosuppressed mice (both given eggs)

Immunity

Ito, A.; Yamamoto, M.; and Okamoto, K., 1978, Internat. J. Parasitol., v. 8 (2), 149-153

Hymenolepis nana, mice, primary infection with mouse-derived cysticeroids prepared from baby or adult mice did not make hosts immune to egg or cyst challenge whereas rapid protective immunity against egg challenge was acquired by inoculation with eggs, time course of cyst differentiation in baby mice was not different from that in adult mice

Immunity

Jacqueline, E.; et al., 1978, Exper. Parasitol., v. 45 (1), 42-54

Trichinella spiralis, infected or immunized mice, rats, and miniature pigs, humoral and secretory immunoglobulins active in inhibition of production of larvae

Immunity

- Jacqueline, E.; Vernes, A.; and Biguet, J., 1978, *Exper. Parasitol.*, v. 45 (1), 34-41
Trichinella spiralis, inhibition of larval production by females from mice immunized with 'metabolic' antigen, comparison with production by females from unimmunized mice, effect of immunosuppressants on production of larvae by females from unimmunized mice

Immunity

- Jagdish, S.; et al., 1979, *Vet. Rec.*, v. 104 (7), 140-142
Theileria annulata, immunising infection in calves by injecting ground up infected *Hyalomma anatolicum anatolicum* supernate, severity of reactions in rolitetracycline-treated vs. non-treated calves compared, adequate protection, durable immunity to subsequent severe homologous challenge

Immunity

- James, S. L.; and Colley, D. G., 1978, *Cellular Immunol.*, v. 38 (1), 35-47
Schistosoma mansoni, eosinophil-mediated destruction of eggs in vitro, role of cytophilic antibody

Immunity

- Jayawardena, A. N.; Janeway, C. A., jr.; and Kemp, J. D., 1979, *J. Immunol.*, v. 123 (6), 2532-2539
Plasmodium yoelii in intact and T cell-deprived mice carrying CBA/N X chromosome, course of infection, specific fluorescent antibody levels, anti-erythrocyte autoantibody responses; effect of CBA/N X chromosome on secondary responses

Immunity

- Jayawardena, A. N.; Waksman, B. H.; and Eardley, D. D., 1978, *J. Immunol.*, v. 121 (2), 622-628
Trypanosoma brucei, mice, activation of distinct helper and suppressor T cells, significance in relation to pathogenesis of trypanosomiasis

Immunity

- Jimenez Caballero, R.; Molina Pasquel, C.; and Lisker, R., 1973, *Rev. Invest. Clin.*, v. 25 (4), 345-348
Toxoplasma gondii, women with diagnostic antibody titers, study of presence of structural chromosome abnormalities in lymphocyte cultures, concluded that *Toxoplasma* infection does not increase proportion of chromosomal breakage in peripheral blood lymphocytes

Immunity

- Johnston, L. A. Y.; Leatch, G.; and Jones, P. N., 1978, *Austral. Vet. J.*, v. 54 (1), 14-18
Babesia argentina, *B. bigemina*, Droughtmaster and Hereford cattle, duration of latent infection and functional immunity following natural infection

Immunity

- Johnstone, C.; Leventhal, R.; and Soulsby, E. J. L., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1015-1020
Ascaris suum, C57BL/6 mice, centrifugation method for recovering tissue larvae is superior to both Baerman and tissue digest methods, use of this method in evaluating this mouse strain as model for study of immune resistance to infection

Immunity

- Jones, T. C.; Len, L.; and Hirsch, J. G., 1975, *J. Exper. Med.*, v. 141 (2), 466-482
Toxoplasma gondii, alterations in mice infected with toxoplasmas attenuated in virulence, effects of antibodies to *Toxoplasma* on survival and growth of these organisms in vitro, multiplication of toxoplasmas within macrophages from normal and immunized mice, requirements for lymphocytes and for *Toxoplasma* antigen for induction in macrophages of ability to suppress *Toxoplasma* multiplication and variation in these requirements with time after immunization, further characterization of lymphocyte-antigen effect on macrophages, effects on *Toxoplasma* multiplication in macrophages of supernates of immune lymphocyte-*Toxoplasma* antigen interactions

Immunity

- Jones, W.O.; Rothwell, T.L.W.; and Adams, D.B., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (1), 48-56
Trichostrongylus colubriformis, temporal relationship between increase in mucosal amine levels and worm expulsion by guinea pigs of different immune status (vaccinated, adoptively immunized, lactating, or ALS-treated), results suggest important role for histamine in effector mechanism of immune response

Immunity

- Joseph, M.; et al., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 48-56
Schistosoma mansoni, cytotoxicity of human and baboon mononuclear phagocytes against schistosomula in vitro, induction by immune complexes containing IgE and parasite antigens

Immunity

- Kagan, I. G., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 429-439
immunological aspects of diagnosis, epidemiology and experimental parasitology, presidential address before 27. Ann. Meet. Am. Soc. Trop. Med. and Hyg.

Immunity

- Kanamura, H. Y.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 242-248
Schistosoma mansoni, human, correlation of class-specific circulating antibodies with clinical forms of disease and with fluorescence patterns developed in sections of both worms and liver granulomata

Immunity

- Karlsson, T.; and Reid, W. M., 1978, *Avian Dis.*, v. 22 (3), 487-495
Eimeria tenella, broiler chicks, effect of anticoccidials in feed on development of immunity to coccidiosis

Immunity

- Karmanska, K.; et al., 1976, *Acta Parasitol. Polon.*, v. 24 (1-10), 81-91
Trichinella spiralis, mice, trascolan (a protease inhibitor) depressed levels of plasma kinins and mobilization and degranulation of mast cells in lamina propria mucosae in intestine, it did not prolong parasite survival but depressed vigor of expulsion

Immunity

- Karmanska, K.; and Michalska, Z., 1978, Acta Parasitol. Polon., v. 25 (11-20), 191-198
Trichinella spiralis, mice, dynamics of stimulation of T and B lymphocytes in intestines, muscles, and lymphatic organs in different phases of infection, results indicate that delayed hypersensitivity is not responsible for expulsion

Immunity

- Karmanska, K.; and Michalska, Z., 1978, Acta Parasitol. Polon., v. 25 (21-35), 281-286
Trichinella spiralis, composition of 'milky spots' in mesenteries of infected mice, possible role in immunologic processes

Immunity

- Kassis, A. I.; Aikawa, M.; and Mahmoud, A. A. F., 1979, J. Immunol., v. 122 (2), 398-405
Schistosoma mansoni, mice, antibody-dependent eosinophil and macrophage adherence and damage to schistosomula

Immunity

- Kassis, A. I.; Warren, K. S.; and Mahmoud, A. A. F., 1979, J. Immunol., v. 123 (4), 1659-1662
Schistosoma mansoni, antibody-dependent complement-mediated killing of schistosomula in intraperitoneal diffusion chambers in mice

Immunity

- Katz, N.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (5), 273-278
Schistosoma mansoni, children and adults living in endemic areas, influence of age and worm burden on re-infection after specific therapy: State of Minas Gerais, Brazil

Immunity

- Katz, N.; and Pellegrino, J., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (5), 245-252
Schistosoma mansoni, Cebus monkeys, correlation of number of eggs per gram of rectal tissue with number of female worms, challenge infection effect, or drug action

Immunity

- Kazura, J. W.; and Grove, D. I., 1978, Nature, London (5671), v. 274, 588-589
Trichinella spiralis, antibody-dependent eosinophil-mediated destruction mechanism specific for newborn larval stage, destruction of adult worms or muscle larvae not observed

Immunity

- Kemp, W. M.; Merritt, S. C.; and Rosier, J. G., 1978, Exper. Parasitol., v. 45 (1), 81-87
Schistosoma mansoni, identification of immunoglobulin classes associated with tegument of adult parasites from mice

Immunity

- Kendall, S. B.; et al., 1978, J. Comp. Path., v. 88 (1), 115-122
Fasciola hepatica, cattle highly resistant to reinfection after initial infection had been terminated by anthelmintic treatment 3 or 22 weeks previously, 82% reduction in worm burden of reinfected cattle, much smaller size of flukes recovered from reinfected animals, precipitin production less in response to second infection than primary infection

Immunity

- Kennedy, M. W.; Wakelin, D.; and Wilson, M. M., 1979, Parasitology, v. 78 (2), 121-130
Trichinella spiralis, mice, transplantation of adult worms directly into host intestine: reproducible techniques; worm survival; stimulation of and susceptibility of worms to the immune response; effects of immune response of donor on worm survival in recipient

Immunity

- Khan, Z. I.; and De Rycke, P. H., 1977, Ztschr. Parasitenk., v. 52 (3), 267-274
Hymenolepis microstoma in mice treated with cortisone, increased weight and glycogen content of worms seems to be immunosuppressive effect rather than hormonal action; cortisone in vitro produces no change in worm weight; infection by 30 worms provokes rejection process which can be partially suppressed by cortisone

Immunity

- Khovanskikh, A. E.; and Kuznetsova, N. A., 1975, Parazitologiya, Leningrad, v. 9 (1), 77-81
Eimeria tenella-infected chickens, intensity of C^{14} -glycine inclusion into proteins of various organs, changes in total proteins and gamma-globulin in blood serum, correlation between increased biosynthesis of proteins in immunocompetent organs and increase in gamma-globulin in blood serum

Immunity

- Kierszenbaum, F., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 965-968
Trypanosoma cruzi, antibody-dependent killing of bloodstream forms by human peripheral blood leukocytes

Immunity

- Kierszenbaum, F.; and Ferraresi, R. W., 1979, Infect. and Immun., v. 25 (1), 273-278
Trypanosoma cruzi, mice, enhancement of resistance against infection by the immunoregulatory agent muramyl dipeptide

Immunity

- Kierszenbaum, F.; and Pienkowski, M. M., 1979, Infect. and Immun., v. 24 (1), 117-120
Trypanosoma cruzi, mice, thymus-dependent control of host defense mechanisms

Immunity

- Kipnis, T. L.; Calich, V. L. G.; and Dias da Silva, W., 1979, Parasitology, v. 78 (1), 89-98
Trypanosoma cruzi, trypomastigote bloodstream forms of Y and CL stock, uptake by mouse peritoneal macrophages and intracellular differentiation and multiplication in vitro under a variety of conditions, results confirm that epimastigote culture forms are phagocytosed and suggest that bloodstream forms penetrate actively into macrophages

Immunity

- Kittas, C.; and Henry, L., 1979, J. Path., v. 127 (3), 129-136
Toxoplasma gondii, mice, effects of gonadectomy and oestrogen administration on response of lymph-node post-capillary venules to infection, possible contribution to differences in immune response between male and female hosts

Immunity

- Kiurtov, N., 1977, Vet. Sbirka, v. 75 (5), 29-32
Babesia bigemina, *B. argentina*, sheep and cattle, immunity and immunoprophylaxis

Immunity

- Klaver-Wesseling, J. C. M.; Vetter, J. C. M.; and Visser, W. K., 1978, Ztschr. Parasitenk., v. 56 (2), 147-157
Ancylostoma caninum, comparative in vitro study of antibody binding to different stages, indirect fluorescent antibody technique applied to cryostat sections and intact worms, role of body surface in immunity, specific reaction consisted of layer covering cortex of cuticle

Immunity

- Kloetzel, J.; and Deane, M. P., 1970, Rev. Inst. Med. Trop. S. Paulo; v. 12 (6), 383-387
Trypanosoma lewisi, *T. cruzi* sensitized with specific antisera and complement, adherence to rat peritoneal cells; adherence is specific, without cross reactions; results suggest that phagocytosis as well as cytophilic antibodies plays a role in immunity

Immunity

- Kloosterman, A.; Albers, G. A. A.; and van den Brink, R., 1978, Vet. Parasitol., v. 4 (4), 353-368
Cooperia spp., half sib groups of Dutch Friesian calves (nat. and exper.), number and length of worms, egg output, serum antibodies, liveweight gain, concluded that within this breed genetic variation exists in resistance to *Cooperia* spp.

Immunity

- Knell, J. D.; and Zam, S. G., 1978, J. Invert. Path., v. 31 (3), 280-288
Nosema spp., double immunodiffusion techniques used to investigate taxonomic relationships between 6 different microsporidian isolates

Immunity

- Kobayakawa, T.; et al., 1976, Japan. J. Med. Sc. and Biol., v. 29 (6), 351-357
Dirofilaria immitis, parasitocidal effect of normal peritoneal exudate cells (PEC) on microfilariae (Mf) in diffusion chambers implanted in guinea pigs was evoked by intra-peritoneal passive transfer of anti-*D. immitis* serum; in vitro cytotoxicity test demonstrated enhanced Mf-killing activity of sensitized PEC with addition of antiserum

Immunity

- Kobayakawa, T.; et al., 1979, J. Immunol., v. 122 (1), 296-301
Trypanosoma brucei brucei, mice, polyclonal B cell activation, not dependent on influence of T cells, unlikely that lipopolysaccharides of endogenous gram-negative bacteria play role, autoimmune responses to DNA, red blood cells, and thymocyte antigens were observed in association with polyclonal antibody synthesis

Immunity

- Kondo, K.; et al., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (5), 371-376
Toxocara canis, mice, resistance after sensitization and challenge with eggs, numbers of larvae recovered from various organs

Immunity

- Koshkina, L. A., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 88-92
Ascaridia galli, in vivo and in vitro studies on effect of host immunity on cuticle permeability

Immunity

- Koshkina, L. A., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 82-86
Ascaridia galli, in vitro glucose uptake greater in worms from vaccinated chicks than in those from unvaccinated chicks, increased parasite surface permeability possibly related to increased host immunity

Immunity

- Koshkina, L. A., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 64-69
Ascaridia galli, ATP-ase, histochemical localization in cutaneous-muscular tissue, optimal conditions for activity, effect of host immunity on activity

Immunity

- Koudstaal, D.; Kemp, D. H.; and Kerr, J. D., 1978, Parasitology, v. 76 (3), 379-386
Boophilus microplus, rejection of larvae from British breed cattle with different levels of resistance, relationship to grooming response

Immunity

- Kozachenko, N. G.; and Vasil'kov, G. V., 1977, Veterinariia, Moskva (7), 59-62
Philometroides lusiana, carp, serology did not reveal any antibodies, allergic reaction nonspecific; host specific antigen recovered from extract of *P. lusiana* but not from *Bothriocephalus gowkongensis*

Immunity

- Krettli, A. U.; Weisz-Carrington, P.; and Nussenzweig, R. S., 1979, Clin. and Exper. Immunol., v. 37 (3), 416-423
Trypanosoma cruzi, in vitro lysis of blood-stream forms mediated by antibodies and complement, strain differences in susceptibility to lysis

Immunity

- Krupp, I. M.; and Jung, R. C., 1976, Immunol. Parasit. Infect., 163-166
Entamoeba histolytica, immunity, review

Immunity

- Kublit'skene, O.; et al., 1976, Med. Parazit. i Parazit. Bolezni, v. 45 (2), 153-157
Echinococcus granulosus, effects on rats (plasmocyte reaction, antibody in serum, liver glycogen content, serum transaminase)

Immunity

- Kuchin, A. S., 1973, Vet. Nauka--Proizvod., Trudy, Minsk, v. 11, 126-130
 stronglylidioidiasis, lambs, protein fractions of blood in periods of invasion, superinvasion, after dehelminthization, and reinvasion

Immunity

- Kumar, P. S.; Kumar, R.; and Mohapatra, L. N., 1978, Indian J. Med. Research, v. 67, 908-917
Toxoplasma gondii, rabbits treated with 2-sulfamonyl-4,4'-diamino diphenylsulphone, determination of minimum curative dose, haemagglutinating antibody response in primary and challenge infection, immunity to challenge infection, schedule for raising high titre serum

Immunity

- Kwa, B. H.; and Liew, F. Y., 1978, J. Helminth., v. 52 (1), 1-6
Taenia taeniaeformis, rats, blocking antibody may be involved in survival of 1 year old established larvae in immune hosts, experiments with 1 month old larvae were inconclusive

Immunity

- Kwa, B. H.; and Liew, F. Y., 1978, J. Helminth., v. 52 (2), 99-107
Taenia taeniaeformis, rats, haemagglutinating antibody production, passive transfer of immunity using sera from different time intervals after infection, passive transfer using dilutions of hyperimmune serum, time course of protection conferred by passive serum transfer before and after challenge

Immunity

- Lackie, A. M.; and Lackie, J. M., 1979, Parasitology, v. 79 (2), 297-301
Moniliformis dubius larvae, evasion of insect immune response, origin of protective envelope

Immunity

- Lalic, R.; et al., 1979, Period. Biol., v. 81 (2), 485-487
T[richinella] spiralis, humans (nat.), guinea pigs (exper.), humoral immune response, indirect immunofluorescence test, possible application to immunodiagnosis

Immunity

- Lalic, R.; Cuperlovic, K.; and Movsesijan, M., 1976, Acta Vet., Beograd, v. 26 (2), 69-75
Fasciola hepatica, rabbits immunized with secretory/excretory antigen, antibodies detected with complement fixation, precipitation, and fluorescent antibody tests, immunologically identical antibodies found after infection

Immunity

- Laitoo, H.; Van Zoost, T.; and Kind, L. S., 1979, Immunol. Commun., v. 8 (1), 1-9
Myocoptes musculus, mice, positive skin test to mite antigens, kinetics of IgE antibody response to mite antigens, mast cell degranulation by mite extract

Immunity

- Langhorne, J.; and Cohen, S., 1979, Parasitology, v. 78 (1), 67-76
Plasmodium knowlesi in *Callithrix jacchus* investigated as possible model for immunological studies, course of infection, differential susceptibility, resistance to challenge infection

Immunity

- Langreth, S. G.; and Reese, R. T., 1979, J. Exper. Med., v. 150 (5), 1241-1254
Plasmodium falciparum, immunocytochemical localization of antibodies from immune sera on surfaces of infected erythrocytes and of merozoites

Immunity

- Lanotte, G.; et al., 1979, Ann. Parasitol., v. 54 (3), 277-295
Leishmania donovani in dogs (nat. and exper.), clinical, parasitological, and immunological comparisons, epidemiological significance of different clinical forms: Cevennes, southern France

Immunity

- Lantier, F.; et al., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (10), 757-760
Heligmosomoides polygyrus-infected mice, modifications in sensitivity to *Salmonella abortus ovis* challenge (more frequently infected after oral inoculation, lower fatality rate after sub-cutaneous inoculation)

Immunity

- Latif, B. M. A.; Said, M. S.; and Ali, S. R., 1979, Vet. Parasitol., v. 5 (4), 307-314
Babesia bigemina, cattle of 2 different age groups (exper.), clinical manifestations, parasitemia, indirect fluorescent antibody titer

Immunity

- Latimer, D. C.; and Meade, T. G., 1979, Texas J. Sc., v. 31 (1), 53-58
Posthodiplostomum minimum, *Schistosoma mansoni*, cercarial responses to uninfected and *P. minimum*-infected sera of *Lepomis* sp. at different dilutions, pericercarial envelope formation

Immunity

- Laubach, H.; Kocan, A. A.; and Sartain, K. E., [1979], J. Parasitol., v. 64 (6), 1978, 1145-1146
Angiostrongylus cantonensis in specific pathogen-free rats, elevated lung lysophospholipase activity and bone marrow eosinophilia due to infection are not additive with increasing worm burdens, findings suggest immune-controlled mechanism of lysophospholipase activity increase during helminth infection

Immunity

- Lauriola, L.; et al., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (2), 251-257
Echinococcus granulosus, preparation of monospecific antisera against antigens in sheep hydatid fluid, useful as reagents in serodiagnostic tests

Immunity

- Lee, D. L., 1976, Rice Univ. Studies, v. 62 (4), 175-182
Nippostrongylus brasiliensis, ultrastructural changes in infective larvae in skin of immune mice

Immunity

- Lee, E. H.; and Fernando, M. A., 1978, J. Parasitol., v. 64 (3), 483-485
Eimeria maxima, chickens, single sporocyst infections give rise to infective oocysts and confer partial protective immunity, results suggest that sporozoites of this species are probably sexually undifferentiated

Immunity

Leke, R. G. F.; and Viens, P., 1978, IRCS J. Med. Sc., v. 6 (3), 99

Plasmodium chabaudi-infected mice (T-cell deprived, sham-thymectomized and normal), course of infection, comparison with P. yoelii; T-cell deprived mice with P. chabaudi (unlike P. yoelii) gave reactions similar to those of normal and sham-deprived mice indicating that this malaria model is not thymus dependent

Immunity

Leitchuk, R.; et al., 1979, Parasite Immunol., v. 1 (1), 61-78

Plasmodium yoelii- and P. berghei-infected mice and vaccinated mice challenged with homologous parasites, changes in phagocytic and adherent cell numbers, development and suppression of population of late-adhering macrophages

Immunity

Lemos, M. V. F.; and Menezes, H., 1978, Tropenmed. u. Parasitol., v. 29 (1), 119-126

Trypanosoma cruzi, development of immune state in mice injected with immune RNA (extracted from spleen of mice immunized with avirulent PF strain), partial protective effect against virulent Y strain

Immunity

Leon, W.; et al., 1979, Infect. and Immun., v. 26 (3), 1218-1220

Trypanosoma cruzi, simple method for obtaining amastigotes from infected mice, antibody-induced capping of amastigotes

Immunity

Leutskaja, Z. K.; and Matsepa, R. L., 1973, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 23, 105-109

Ascaridia galli-immunized chickens with vitamin A deficiency, lipoprotein and glycoprotein fractions of serum

Immunity

Leutskaja, Z. K.; and Piskunova, L. V., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 22, 121-129

Ascaridia galli-immunized chickens, changes in cholesterol levels in various tissues, probable role of cholesterol, interdependently with vitamin A, in protecting host organism

Immunity

von Lichtenberg, F., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 186-204
schistosomiasis, human, mechanisms of immunity and immunopathology, review

Immunity

Liew, F. Y.; Dhaliwal, S. S.; and Teh, K. L., 1979, Immunology, v. 37 (1), 35-44

Plasmodium berghei, mice, effect of infection and of supernatant obtained from cultures of infected red cells on humoral (enhanced or suppressed) and cell-mediated (suppressed) immune responses to unrelated antigens

Immunity

Lloyd, S.; and Soulsby, E. J. L., 1978, Immunology, v. 34 (5), 939-945

Taenia taeniaeformis, mice, passive transfer of protection with intestinal, colostrum, or serum immunoglobulins, protective capacity found to be associated mainly with IgA of colostrum and intestinal secretions and IgG of serum

Immunity

Loker, E. S., 1978, Exper. Parasitol., v. 46 (2), 134-140

Schistosomium douthitti, effect of irradiating miracidia on their infection of Lymnaea catascopium, results of later challenge with normal miracidia, failure to confer protection

Immunity

Loker, E. S., 1979, J. Invert. Path., v. 33 (2), 265-273

Schistosomium douthitti in Lymnaea catascopium (exper.), pathological changes and cellular responses induced by penetrating miracidia and developing parasites

Immunity

Lombardo, G.; and Gemelli, M., 1977, Riv. Parassitol., Roma, v. 38 (1), 129-138

parasitic disease, children, epidemiology in recent years; humoral and cellular immunity in parasitic infections, brief review

Immunity

Long, E.; Doenhoff, M.; and Bain, J., 1978, J. Helminth., v. 52 (3), 187-191

Schistosoma mansoni, mice, development of partial resistance against homologous challenge as early as 2 weeks after primary infections of 35 to 75 cercariae, degree of protection increased to apparent maximum by 6 weeks, animals given primary infection of only 25 cercariae required longer period to acquire maximum resistance

Immunity

Long, G. W.; and Dusanic, D. G., 1978, Exper. Parasitol., v. 44 (1), 56-65

Trypanosoma lewisi, serological reactivities of exoantigens and cellular antigens of bloodstream parasites from immunosuppressed rats (precipitation and agglutination tests), results suggest that likely result of immunosuppressing host is trypanosome antigen preparation that is more reactive serodiagnostic reagent

Immunity

Long, P. L.; and Millard, B. J., 1978, Parasitology, v. 76 (1), 1-9

Eimeria grenieri in Numida meleagris (intestine, caeca) (nat. and exper.), life cycle, reproduction rate, pathogenicity (severe depression of body weight gain), immunity to reinfection, treatment with sulphaquinoxaline in drinking water and robenidine in food: Britain

Immunity

Long, P. L.; Millard, B. J.; and Smith, K. M., 1979, Avian Path., v. 8 (4), 453-467

Eimeria spp., chickens, effect of 4 anticoccidial drugs on development of immunity, field and laboratory conditions

Immunity

- Loose, L. D.; et al., 1978, Infect. and Immun., v. 20 (1), 30-35
 polychlorinated biphenyl- and hexachlorobenzene-treated mice, impaired resistance to bacterial endotoxin and to *Plasmodium berghei*, data indicate that environmental chemicals impair host resistance and that the alteration may be related to presence of the chemicals in the lymphoreticular organs

Immunity

- Lopez, A. F.; Bunn Moreno, M. M.; and Sanderson, C. J., 1978, Internat. J. Parasitol., v. 8 (6), 485-489
Trypanosoma cruzi, lysis of epimastigotes by eosinophils (entirely antibody-dependent) and neutrophils (significant antibody-independent component)

Immunity

- Louis, J.; et al., 1978, Pharmacol. Immunoreg., 225-238
Trypanosoma brucei, mice, strong polyclonal B cell activation, appearance of autoantibodies with various specificities

Immunity

- Louis, J.; et al., 1979, European J. Immunol., v. 9 (11), 841-847
Leishmania tropica, mice, induction of specific T lymphocyte-dependent proliferative response

Immunity

- Luckins, A. G.; and Gray, A. R., 1979, Parasitology, v. 79 (3), 337-347
Trypanosoma congolense, stocks from East and West Africa, antigenicity and serological relationships

Immunity

- Lumsden, R. D., 1979, Host-Parasite Interfaces, 49-70
 helminth parasitism, mammalian inflammatory response, review of morphological aspects of host-parasite interaction

Immunity

- Lumsden, W. H. R., 1972, Immun. Animal Parasites, 287-299
 immune response to trypanosomes, review

Immunity

- Lumsden, W. H. R., 1978, Handb. Exper. Immunol. (Weir), 3. ed., 42.1-42.47
 demonstration of antibodies to Protozoa, extensive review

Immunity

- Lunde, M. N.; Ottesen, E. A.; and Cheever, A. W., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 87-91
Schistosoma mansoni, humans, monkeys, enzyme-linked immunosorbent assay technique using antigens prepared from eggs, cercariae, and adult worms, differential responses to antigen serologically differentiated between chronic and acute infections

Immunity

- McArthur, C. P., 1978, J. Fish Dis., v. 1 (4), 377-387
Telogaster opisthorchis, precipitating antibody in *Anguilla australis schmidtii* serum and *A. dieffenbachii* gut mucus, agar-gel diffusion, passive haemagglutination, estimated molecular weight and 2-mercaptoethanol sensitivity of antibodies

Immunity

- McCarthy, V. C.; Clyde, D. F.; and Woodward, W. E., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 6-8
Plasmodium falciparum, semi-immune human exposed to homologous and heterologous challenges developed infections but with moderated clinical manifestations, increased prepatent periods, and limited parasitemias; gametocytes produced were non-infective for *Anopheles stephensi*

Immunity

- McDonald, V.; and Phillips, R. S., 1978, Clin. and Exper. Immunol., v. 34 (2), 159-163
Plasmodium chabaudi-infected mice, increase in K cell activity in spleens, chicken red cells coated with antibody used as target cells

Immunity

- McDonald, V.; and Phillips, R. S., 1978, Immunology, v. 34 (5), 821-830
Plasmodium chabaudi, thymectomized mice more susceptible to infection than controls; adoptive transfer of immunity with enriched populations of spleen T and B lymphocytes

Immunity

- McDougald, L. R.; Karlsson, T.; and Reid, W. M., 1979, Avian Dis., v. 23 (4), 999-1005
 coccidiosis, chickens (exper.), natural outbreak of infectious bursal disease (IBD) during comparison of anticoccidials for their effect on development of immunity, interaction between diseases, immunity to coccidiosis not blocked by IBD

Immunity

- McDougald, L. R.; and McQuiston, T. F., 1978, Avian Dis., v. 22 (4), 765-770
Eimeria spp., turkeys, coccidiosis management, innate (age) resistance and acquired immunity vs. anticoccidial medication

Immunity

- McGowan, M. J.; Camin, J. H.; and McNew, R. W., 1979, J. Parasitol., v. 65 (5), 692-699
Haemaphysalis leporispalustris infestations of juvenile and adult *Sylvilagus floridanus* from January 1974-December 1975 in Douglas County, Kansas, relationship to skin-sensitizing antibody production, models used to interpret data show promise for predicting tick population fluctuations and incidence of vector borne disease outbreaks, implications of existence of resistance to tick attachment

Immunity

- McGregor, I. A., 1978, Israel J. Med. Sc., v. 14 (5), 523-536
 malaria, epidemiological aspects, symposium presentation: failure of eradication programs; malaria in pregnancy; interaction between parasite and human erythrocyte

- Immunity**
 Machnicka, B., 1977, *Acta Parasitol. Polon.*, v. 24 (28-34), 335-343
Trichinella spiralis-infected mice, dynamics of antigen binding lymphocytes tested by rosette-forming cell technique
- Immunity**
 Mackenzie, C. D.; et al., 1977, *Clin. and Exper. Immunol.*, v. 30 (1), 97-104
Schistosoma mansoni, antibody (IgG)-mediated adherence of rat eosinophils to schistosomula in vitro with consequent damage to parasite
- Immunity**
 Mackenzie, C. D.; Preston, P. M.; and Ogilvie, B. M., 1978, *Nature, London* (5690), v. 276, 826-828
Trichinella spiralis, *Nippostrongylus brasiliensis*, surface of infective larvae and adults may activate complement but not that of newborn larvae, stage-specific antibodies to nematode cuticle are capable of mediating attack by inflammatory cells against nematode surface
- Immunity**
 McLaren, D. J.; et al., 1978, *Parasitology*, v. 76 (3), 327-348
Schistosoma mansoni in vitro and in vivo (mice), developing tegumental outer membrane, freeze fracture study, changes in number and distribution of intramembraneous particles (IMP) during parasite maturation, reflection in alterations of ultrastructure and antigenicity of parasite surface
- Immunity**
 McLaren, D. J.; and Ramalho-Pinto, F. J., 1979, *J. Immunol.*, v. 123 (4), 1431-1438
Schistosoma mansoni, eosinophil-mediated killing of schistosomula in vitro, synergistic effect of antibody and complement
- Immunity**
 McLaren, D. J.; Ramalho-Pinto, F. J.; and Smithers, S. R., 1978, *Parasitology*, v. 77 (3), 315-324
Schistosoma mansoni, ultrastructural evidence for complement and antibody-dependent damage to schistosomula by rat eosinophils in vitro
- Immunity**
 Maddison, S. E.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 966-975
Schistosoma mansoni, intact and B cell deficient mice with and without pretreatment with BCG, course of infection and immune responses
- Immunity**
 Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 237-248
Schistosoma mansoni, rhesus monkeys, immunization, requirement for activation of both cell-mediated and humoral mechanisms
- Immunity**
 Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 249-254
Schistosoma mansoni, cellular and humoral immune responses in *Macaca mulatta* with multiple chronic and early primary infections
- Immunity**
 Maddison, S. E.; Chandler, F. W.; and Kagan, I. G., 1978, *J. Reticuloendothel. Soc.*, v. 24 (6), 615-628
Schistosoma mansoni, mice, rhesus monkeys, effect of pretreatment with BCG on subsequent infection
- Immunity**
 Maddison, S. E.; and Kagan, I. G., 1979, *J. Parasitol.*, v. 65 (4), 515-519
Schistosoma mansoni, mice, passive transfer of immune serum or of a combination of sensitized cells and immune serum intravenously or intraperitoneally, results of percutaneous and subcutaneous exposure to cercarial challenge
- Immunity**
 Madeira, E. D.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 34-38
Trypanosoma cruzi, antibody-dependent cellular cytotoxicity of normal human blood cells against epimastigotes, main cytotoxic activity detected in granulocyte-rich fraction
- Immunity**
 Maekelt, G. A., 1972, *Immun. Animal Parasites*, 343-363
 immune response to *Leishmania*, review
- Immunity**
 Mahmoud, A. A. F.; et al., 1979, *J. Immunol.*, v. 122 (5), 1655-1657
Schistosoma mansoni, in vitro killing of schistosomula by BCG- or *Corynebacterium parvum*-activated macrophages
- Immunity**
 Mahoney, D. F., 1972, *Immun. Animal Parasites*, 301-341
 immune response to *Babesia*, review
- Immunity**
 Mahoney, D. F.; et al., 1979, *Internat. J. Parasitol.*, v. 9 (4), 297-306
Babesia bovis, immune response in *Bos taurus* studied using passive transfer of serum from immune animals, results suggest effector mechanism is mediated by strain-specific antibody
- Immunity**
 Mahoney, D. F.; Wright, I. G.; and Goodger, B. V., 1979, *Austral. Vet. J.*, v. 55 (1), 10-12
Babesia bovis, calves, single vaccination by attenuated and non-attenuated parasites was sufficient to prevent clinical babesiosis under conditions of reduced tick populations
- Immunity**
 Makimura, S.; and Suzuki, N., 1977, *Research Bull. Obihiro Univ.*, s. 1, v. 10 (2), 401-406
Plasmodium berghei, mice, phagocytosis of parasitized erythrocytes by mouse peritoneal macrophages, concluded that both humoral and cellular factors were important
- Immunity**
 Mangold, B. L.; and Knopf, P. M., 1978, *J. Parasitol.*, v. 64 (5), 813-821
Schistosoma mansoni, recovery of schistosomula from lungs of normal and resistant rats was dependent upon assay conditions employed (incubation medium, incubation time, perfusion procedure), optimal assay conditions established

Immunity

- Manning, D. D.; Manning, J. K.; and Reed, N. D., 1976, *J. Exper. Med.*, v. 144 (1), 288-292
Nippostrongylus brasiliensis, mice, suppression of reaginic antibody (IgE) formation by treatment with anti- μ antiserum, supports hypothesis that IgE-producing cells arise from IgM-bearing precursors

Immunity

- Mannweiler, E.; Felgner, P.; and Lederer, I., 1979, *Deutsche Med. Wchnschr.*, v. 104 (32), 1139-1142
E[chinococcus] cysticus, *E[chinococcus] alveolaris*, humans, serum antibodies, complement fixation, indirect haemagglutination, and indirect enzyme immune (ELISA) techniques

Immunity

- Mansfield, J. M.; and Bagasra, O., 1978, *J. Immunol.*, v. 120 (3), 759-765
Trypanosoma rhodesiense, mice, B cell responses to helper T cell-independent and -dependent antigens, implications for mechanism of immune system dysfunction in chronic African trypanosomiasis

Immunity

- Manson-Smith, D. F.; et al., 1979, *Clin. and Exper. Immunol.*, v. 38 (3), 475-482
Trichinella spiralis in NIH vs. BALB/c mice, distribution and duration of adult worms in small intestine, localization of lymphoblasts within regions of small intestine during course of infection

Immunity

- Marius, V.; et al., 1979, *Ann. Recherches Vet.*, v. 10 (1), 55-63
 calves (exper.) infected with *Dictyocaulus viviparus* and several intestinal nematodes, antibodies against *D. viviparus* antigen in sera and respiratory secretions, enzyme-linked immunosorbent assay

Immunity

- Markus, M. B., 1978, *Advances Vet. Sc. and Comp. Med.*, v. 22, 159-193
Sarcocystis and sarcocystosis in domestic animals and man, extensive review (life cycle; host specificity; pathogenicity and pathology; immunology and serology)

Immunity

- Marretta, J.; and Casey, F. B., 1979, *Immunology*, v. 37 (3), 609-613
Ascaris suum, *Nippostrongylus brasiliensis*, effect on potentiation of IgE response in guinea pigs

Immunity

- Marsden, P. D.; and Crane, G. G., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (1), 54-70
 malaria, humans, role in tropical splenomegaly syndrome, current appraisal, review

Immunity

- Martinez-Palomo, A., 1978, *J. Parasitol.*, v. 64 (1), 127-136
Onchocerca volvulus, microfilariae at different developmental stages obtained from untreated humans, formation of cuticle characterized ultrastructurally, no plasma membrane found at cuticle, results suggest that immunogenic determinants are hidden from exterior by acellular cuticle and this may explain lack of cellular reaction usually found around living microfilariae in dermis of onchocerciasis patients

Immunity

- Martynowicz, T., 1975, *Acta Parasitol. Polon.*, v. 23 (41-51), 603-633
Trichinella spiralis, guinea pigs, treatment with immunosuppressive drugs, immunologic observations (macrophage migration inhibition test, serologic tests), immunohistochemical observations, behavior of mast cells, histopathology, parasitologic observations

Immunity

- Masaba, S., 1978, *Bull. Animal Health and Prod. Africa*, v. 26 (4), 298-306
Hyostrogylus rubidus, immune adherence of human red blood cells to cuticles of various developmental stages following exposure of parasites to serum derived from infected pigs in presence of complement

Immunity

- Masaba, S.; and Herbert, I. V., 1978, *Vet. Parasitol.*, v. 4 (2), 167-174
Hyostrogylus rubidus, anti-enzyme antibodies against parasite enzymes in rabbits and pigs

Immunity

- Masihi, K. N.; and Werner, H., 1978, *J. Immunol.*, v. 121 (5), 2056-2059
Toxoplasma gondii, types of cells involved in antigen-stimulated and spontaneous rosette formation

Immunity

- Masihi, K. N.; and Werner, H., 1978, *Zentralbl. Bakteriolog.*, 1. Abt. Orig., Reihe A, v. 240 (1), 135-142
Toxoplasma gondii, mice, effect of passively transferred heterologous serum on number of brain cysts present and survival rate after lethal challenge, serum given before challenge reduces numbers of brain cysts and increases survival rate, serum given after challenge gives higher survival rate but enhances infection as judged by increased numbers of brain cysts

Immunity

- Masur, H.; and Jones, T. C., 1978, *J. Exper. Med.*, v. 147 (1), 157-170
Pneumocystis carinii, preliminary studies on identifying trophozoites and cysts and establishing infection of cell cultures, interaction in vitro with macrophages and L-cells, observations suggest role for antibody and mononuclear phagocytes during immune response

Immunity

- Mauel, J., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 127-146
 immune mechanisms in protozoal infections, colloquium presentation

Immunity

- Mauel, J.; et al., 1974, Ciba Found. Symp., n.s. (25), 225-242
Leishmania, survival and death in macrophages, review

Immunity

- Mauel, J.; Buchmueller, Y.; and Behin, R., 1978, J. Exper. Med., v. 148 (2), 393-407
Leishmania enriettii, destruction of intracellular organisms in macrophages activated by cocultivation with stimulated macrophages

Immunity

- Mayor Withey, K. S.; et al., 1978, Clin. and Exper. Immunol., v. 34 (3), 359-363
Trypanosoma brucei, mice, extensive proliferation of B, T, and null cells in spleen and bone marrow, still unclear whether there is any primary target cell for immunosuppression

Immunity

- Mayrhofer, G., 1979, Cellular Immunol., v. 47 (2), 304-311
Nippostrongylus brasiliensis, rats, primary and secondary infections, kinetics of mucosal mast cell hyperplasia in jejunum, may be manifestation of adaptive immune response to parasite

Immunity

- Mayrhofer, G., 1979, Cellular Immunol., v. 47 (2), 312-322
Nippostrongylus brasiliensis, rats, effect of thymectomy and of depleting recirculating lymphocytes on jejunal mucosal mast cell response to infestation

Immunity

- Mayrhofer, G.; and Fisher, R., 1979, Immunology, v. 37 (1), 145-155
Nippostrongylus brasiliensis, rats, influence of T-cell depletion on mast cell responses

Immunity

- Mayrink, W.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (3), 182-185
Leishmania braziliensis, humans cured with glucantime, 52% negative reactions to Montenegro intradermal test, possible immunological implications

Immunity

- Meek, A. H.; and Morris, R. S., 1979, Austral. Vet. J., v. 55 (2), 61-64
Fasciola hepatica, sheep (exper.) maintained under grazing conditions, no evidence that previous infection conferred significant host resistance to future challenge

Immunity

- Mendes, R. P.; Takehara, H. A.; and Mota, I., 1979, Exper. Parasitol., v. 48 (3), 345-351
Trypanosoma cruzi, mice with acute and chronic infection, homocytotropic antibody response to unrelated antigens, loss of T-cell regulatory mechanism may explain results

Immunity

- Mendonca-Previato, L.; Gorin, P. A. J.; and Previanto, J. O., 1979, Biochemistry, Washington, v. 18 (1), 149-154
Herpetomonas samuelpessoai, polysaccharide components of cells grown on various culture media, possible role of certain polysaccharides in immunogenic terms

Immunity

- Merino, F.; and Luis, J., 1979, Immunol. Commun., v. 8 (4), 457-468
Leishmania braziliensis, effect of peritoneal macrophages from mice injected with parasites on in vitro growth of tumor cells

Immunity

- Mesfin, G. M.; and Bellamy, J. E. C., 1979, Infect. and Immun., v. 23 (1), 108-114
Eimeria falciformis var. pragensis, mice, (i) effects of immune response on life cycle, (ii) relative immunizing ability of different doses of oocysts, (iii) duration of acquired resistance; possibility that cell-mediated immune mechanism is responsible for arrest in schizogony

Immunity

- Mesfin, G. M.; and Bellamy, J. E. C., 1979, Infect. and Immun., v. 23 (2), 460-464
Eimeria falciformis var. pragensis, mice, thymic dependence of immunity

Immunity

- Meuwissen, J. H. E. T.; Golenser, J.; and Verhave, J. P., 1978, Israel J. Med. Sc., v. 14 (5), 601-605
Plasmodium berghei, rats under prophylactic treatment with various drug regimens, development of effective antiparasite immunity by natural bites of infected mosquitoes, symposium presentation

Immunity

- Michalska, Z.; and Karmanska, K., 1976, Acta Parasitol. Polon., v. 24 (1-10), 69-80
Trichinella spiralis, mice, effect of inhibition of degranulation of mast cells (by disodium cromoglycate) on expulsion of adult trichinellae, numbers of muscular larvae, and extent and character of histopathologic changes in intestine and muscles

Immunity

- Michel, J. C.; Lagrange, P. H.; and Hurtrel, B., 1979, Parasite Immunol., v. 1 (4), 267-275
Plasmodium-infected mice, profound alteration of inductive phase of delayed-type hypersensitivity and antibody formation to sheep erythrocytes when sensitization with antigen was performed intravenously at critical time of disease but not after subcutaneous immunization, suggests major role for spleen in mechanism of immunodepression

Immunity

- Michel, J. F.; Lancaster, M. B.; and Hong, C., 1979, Parasitology, v. 79 (1), 157-168
Ostertagia ostertagi, cattle, effect of age, previous experience of infection, pregnancy, and lactation on resistance to establishment of worms, rate at which populations are turned over, and arrested development

Immunity

- Mihai, M.; et al., 1978, Bacteriol., Virusol., Parazit., Epidemiol., Bucuresti, v. 23 (3), 147-152
Toxoplasma gondii, human, immune response, risk of congenital infection during pregnancy

Immunity

- Milivojevic, D., 1977, Vet. Glasnik, v. 31 (12), 887-894
Ascaris suum, swine, superinfection causes expulsion of worms from intestine and rise in serum antibody titre

Immunity

- Miller, H. R. P.; and Nawa, Y., 1979, *Exper. Parasitol.*, v. 47 (1), 81-90
Nippostrongylus brasiliensis, rats, parasite elimination is associated with increase in proportion of intestinal goblet cells, this effect can be adoptively transferred by immune thoracic duct lymphocytes

Immunity

- Miller, T. A., 1978, *Vet. Clinics North Am.*, v. 8 (4), 707-720
 immunology in intestinal parasitism of cats and dogs, review

Immunity

- Mills, C. A.; Anderson, R. M.; and Whitfield, P. J., 1979, *J. Animal Ecol.*, v. 48 (2), 383-399
Transversotrema patialense on *Brachydanio rerio* (exper.), host size (age) and parasite survival, (parasite) age- and density-dependent survival and reproduction, reinfection and transplantation experiments failed to provide evidence of host immunological responses

Immunity

- Minter-Goedbloed, E., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 22-30
Trypanosoma cruzi, primary isolation by hemoculture of parasites from naturally infected *Didelphis azarae*, mice (exper.) and acute and chronic infections in humans; low proportion of successful isolations from human chronic infections due probably to lower parasitemia; hemoculture from chronic patients also differed markedly from other hosts in very slow growth-rate obtained which was probably due to continuing activities of humoral and cellular components in blood inoculum

Immunity

- Mitchell, G. F., 1977, *Progr. Immunol.* III, 675-680
 host protective immunity in parasitic diseases, review

Immunity

- Mitchell, G. F., 1978, *Contemp. Topics Immunobiol.*, v. 8, 55-67
 metazoan and protozoan infections in nude mice, review

Immunity

- Mitchell, G. F., 1979, *Advances Immunol.*, v. 28, 451-511
 immunological and 'paraimmunological' responses to infection with metazoan and protozoan parasites in mouse models, extensive review

Immunity

- Mitchell, G. F., 1979, *Immunology*, v. 38 (2), 209-223
 effector cells, molecules, and mechanisms in host-protective immunity to parasites, review

Immunity

- Mitchell, G. F.; Handman, E.; and Howard, R. J., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (5), 553-559
Plasmodium berghei, *Babesia rodhaini*, mice, attempts to raise host-protective sera using variety of immunization manipulations (BCG injection, *P. yoelii* infection, others)

Immunity

- Mogueira Machado, J. A.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 441 [Letter]
Schistosoma mansoni, percentage of T and B lymphocytes in peripheral blood of adults with chronic intestinal infection

Immunity

- Molinari, J. A.; Ebersole, J. L.; and Cypess, R. H., 1978, *J. Parasitol.*, v. 64 (2), 233-238
Heligmosomoides polygyrus, mice, oral infection and challenge, serum protein levels, immunoglobulin levels, specific antibody levels

Immunity

- Molineaux, L.; et al., 1978, *Bull. World Health Organ.*, v. 56 (4), 573-578
Plasmodium falciparum, *P. malariae*, serological study comparing infants exposed to or protected from malaria: Nigeria

Immunity

- Molineaux, L.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 301-310
 sickle cell disease subjects living in hyperendemic malarial area, numbers of malaria-infected persons, seroimmunologic test results, immunoglobulin levels, and age groups compared with subjects without sickle cell trait: Sudan savanna of Nigeria

Immunity

- Moloney, A.; and Denham, D. A., 1979, *Parasite Immunol.*, v. 1 (1), 3-12
Trichinella spiralis, effects of immune serum and cells on newborn larvae, in vitro and in vivo (mice) studies

Immunity

- Molyneux, M. E.; et al., 1979, *J. Trop. Med. and Hyg.*, v. 82 (9-10), 183-187
 malarial and schistosomal antibodies and serum immunoglobulin concentrations in patients with massive splenomegaly measured, discussion of problems in diagnosis of gross splenomegaly in areas where schistosomiasis and malaria coexist: Malawi

Immunity

- Moncol, D. J.; and Triantaphyllou, A. C., 1978, *J. Parasitol.*, v. 64 (2), 220-225
Strongyloides ransomi, factors influencing sex expression and developmental pattern of progeny of parasitic females: appearance of males attributed to effect of host immunity, physiological ageing of parasitic females, or both, sex determined prior to hatching; cultural conditions (pH, culture substrate) influenced direction of development of female rhabditoid larvae

Immunity

- Moriearty, P. L.; et al., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (1), 15-21
 borderline cutaneous leishmaniasis, clinical, immunological and histological differences from mucocutaneous leishmaniasis, patients from Bahia, Brazil

Immunity

- Morrison, W. I.; et al., 1978, *Clin. and Exper. Immunol.*, v. 32 (1), 25-40
Trypanosoma congolense, marked differences in susceptibility of inbred strains of mice to infection, correlation with changes in spleen lymphocyte populations

Immunity

Moser, G.; et al., 1978, J. Protozool., v. 25 (1), 119-124

Plasmodium berghei, *P. knowlesi*, *P. cynomolgi*, purification of sporozoites by passage through DEAE-cellulose column, retention of ability to produce infection, to induce protective immunity, and to react with known antisera

Immunity

Mougeot, G.; et al., 1978, Ann. Parasitol., v. 53 (3), 277-283

Schistosoma mansoni in *Rattus rattus* and *R. norvegicus*, survey by immunofluorescence, variation in rate of infection and in antibody titers in 3 different biotopes, possible explanations: Guadeloupe

Immunity

Moyou-Somo, R.; et al., 1978, Compt. Rend. Acad. Sc., Paris, v. 286, s. D, Sc. Nat. (12), 993-996

Plasmodium berghei berghei, mice infected and maintained in hot ambient temperature undergo chronic infection whereas controls at laboratory temperature develop acute and lethal infection, the hot environmental temperature does not seem to affect the parasites' pathogenicity but to stimulate host immune defenses

Immunity

Munday, B. L., 1979, Vet. Parasitol., v. 5 (2-3), 129-135

Sarcocystis ovicanis, deleterious effect on growth rate and haematocrit in lambs, presence of antibodies (presumably colostral) against *Sarcocystis* did not appear to provide significant protection

Immunity

Munday, B. L.; and Corbould, A., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (2), 141-145

Toxoplasma gondii, sheep and cattle exposed to natural infection, serological responses, results taken to indicate that cattle do not readily acquire persistent infections

Immunity

Murphy, J. R., 1979, Infect. and Immun., v. 24 (5), 707-712

Plasmodium berghei, mice, analysis of mechanisms of immunity generated in response to immunization with formalin-killed blood-stage parasites

Immunity

Murphy, J. R.; and Lefford, M. J., 1979, Infect. and Immun., v. 23 (2), 384-391

Plasmodium yoelii, mice, defense mechanism against infection is mediated by humoral factors in absence of demonstrable cell-mediated immunity

Immunity

Murray, H. W.; et al., 1979, J. Exper. Med., v. 150 (4), 950-964

Toxoplasma gondii, role of oxygen intermediates in macrophage killing and inhibition of growth of intracellular toxoplasmas

Immunity

Murray, H. W.; and Cohn, Z. A., 1979, J. Exper. Med., v. 150 (4), 938-949

Toxoplasma gondii, methods which demonstrate susceptibility to selected oxygen intermediates generated in cell-free system

Immunity

Murray, M.; and Morrison, W. I., 1979, Parasitology, v. 79 (3), 349-366

Trypanosoma congolense, *Trypanosoma brucei*, non-specific induction of increased resistance in mice by immunostimulants

Immunity

Musaev, M. A.; and Surkova, A. M., 1974, Parazitologia, Leningrad, v. 8 (2), 170-174

Eimeria tenella, chickens (exper.), acid and alkaline phosphatase activity of small intestinal mucosa, comparison of one infection (non-immune) vs. 3 successive infections (immune)

Immunity

Musatov, V. A., 1978, Veterinariia, Moskva (6), 57-61

ixodid ticks, pathology of host skin reaction to bite and feeding, nonspecific (innate) reaction and specific immune reaction

Immunity

Naik, S. R.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (3), 291-292

Giardia lamblia, humans, investigation of humoral and cellular immunity shows no impairment of immune functions

Immunity

Naik, S. R.; et al., 1979, Trop. and Geogr. Med., v. 31 (4), 493-498

Giardia lamblia, humans, no immunodeficient basis for endemic giardiasis found in comparative survey of immunoglobulins in serum and duodenal juice and of T and B lymphocyte sub-populations of infected vs. non-infected persons: North India

Immunity

Nardin, E. H.; et al., 1979, Science (4418), v. 206, 597-599

Plasmodium falciparum, human, antibodies to sporozoites, occurrence in 4 age groups: Keneba, West Kiang district, The Gambia

Immunity

Nardin, E. H.; and Nussenzweig, R. S., 1978, Nature, London (5666), v. 274, 55-57

Plasmodium berghei-mouse and *P. knowlesi*-rhesus monkeys systems, detection of stage and species specific antiparasite antibodies with circumsporozoite precipitation and indirect immunofluorescence methods, preliminary application to *P. falciparum* in humans with similar results

Immunity

Nash, T. E.; Ottesen, E. A.; and Cheever, A. W., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 944-950

Schistosoma mansoni, *S. haematobium*, 4 clinically different groups of patients, total IgG and IgM levels, specific IgM and IgG antibody to polysaccharide antigen present in schistosome gut, modulation of antibody response appears primarily dependent on infection duration, total Ig levels depend on infection duration and intensity

Immunity

- Nassi, H.; and Dupouy, J., 1977, Bull. Soc. Zool. France, v. 102 (3), 243-249
Subulura sp., description, histology of encapsulation of third stage larvae, role of host regenerating crypt in capsule formation, defense reaction mechanism of host

Immunity

- Nathan, C.; et al., 1979, J. Exper. Med., v. 149 (5), 1056-1068
Trypanosoma cruzi, activation of macrophages in vivo and in vitro, correlation between hydrogen peroxide release and trypanocidal activity

Immunity

- Nawa, Y., 1979, Internat. J. Parasitol., v. 9 (3), 251-255
Nippostrongylus brasiliensis-infected rats, increased permeability of gut mucosa is related to worm burden and neither to worm expulsion nor intestinal mast cell response, host strain difference in both worm burden kinetics and kinetics of intestinal permeability

Immunity

- Nawa, Y.; and Miller, H. R. P., 1979, Cellular Immunol., v. 42 (2), 225-239
Nippostrongylus brasiliensis, rats, intestinal mast cell (IMC) response can be transferred by adoptive immunization, IMC may be derived from subpopulation in transferred immune thoracic duct lymphocytes, close relationship between worm expulsion and increased numbers of IMC

Immunity

- Nawa, Y.; Parish, C. R.; and Miller, H. R. P., 1978, Cellular Immunol., v. 37 (1), 41-50
Nippostrongylus brasiliensis, immune thoracic duct lymphocytes fractionated into cells lacking or bearing surface immunoglobulin, protective capacities of each subpopulation examined

Immunity

- Nayar, E., 1979, Indian J. Med. Research, v. 69, 417-422
Litomosoides carinii, albino rats (exper.), relationship between dose size, resulting parasitemia, and immune response (cell mediated and humoral)

Immunity

- Neilson, J. T. M., 1978, J. Parasitol., v. 64 (2), 378-380
Dipetalonema viteae, kinetics of primary infections in an outbred and 5 inbred strains of *Mesocricetus auratus*, different patterns relative to microfilariae elimination or non-elimination, differences in average numbers of adult worms recovered

Immunity

- Nelson, W. A.; et al., 1977, J. Med. Entom., v. 13 (4-5), 389-428
 host-ectoparasite interactions, review: hematologic and clinical manifestations of infestation, arthropod antigens and host antibodies raised against them, manifestations of antigen-antibody interaction, histopathologic reactions of skin to arthropod feeding and acquired resistance to arthropods, genetics of host resistance, economic effects of parasitism, speculation on nature of innate and acquired resistance

Immunity

- Nelson, W. A.; Bell, J. F.; and Stewart, S. J., 1979, Exper. Parasitol., v. 48 (2), 259-264
Polyplax serrata, histopathology of skin in mice that do (CFW strain) and do not (C57BL strain) develop resistance

Immunity

- Neppert, J., 1978, Tropenmed. u. Parasitol., v. 29 (1), 36-38
 onchocerciasis, human, serological survey, correlation with epidemiological data and microfilarial rates: Liberia, West Africa

Immunity

- Neva, F. A.; Wyler, D.; and Nash, T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 467-471
 cutaneous leishmaniasis resembling 'moist' form caused by *Leishmania tropica* major, 24-year-old male Peace Corps volunteer in Senegal, case report, persistent organisms in healing lesions after multiple courses of treatment and in presence of normal humoral and cell-mediated immune response

Immunity

- Nguyen, B. T.; and Stadtsbaeder, S., 1978, Arch. Internat. Physiol. et Biochim., v. 86 (1), 207-209
Toxoplasma gondii, β -1,3 glucan did not induce non-specific resistance in vivo (mice) or in vitro

Immunity

- Niederborn, J. Y., 1978, J. Parasitol., v. 64 (2), 253-256
Mesocestoides corti, in vitro antiparasitic effects of intestinal extracts from mice subcutaneously vaccinated with live tetrathyridia not observed with intestinal extracts from previously orally infected or control mice, tetrathyridia pretreated with mouse serum from subcutaneously vaccinated mice were killed by incubation in intestinal extracts from untreated donor mice

Immunity

- Niederborn, J. Y., 1978, J. Parasitol., v. 64 (4), 763-764
Mesocestoides corti, fluorescent antibody studies of sera and intestinal extracts of mice subcutaneously vaccinated with tetrathyridia; results favor hypothesis that intestinal immunity against tetrathyridia is antibody-mediated to some degree

Immunity

- Niedernostheide, F.; et al., 1979, Zentralbl. Vet.-Med., Reihe B, v. 26 (7), 527-539
Ascaris suum, rats (exper.), effect of isoenergetic fat diets on resistance, immunological and endocrine parameters

Immunity

- Norman, L.; Gold, D.; and Kagan, I. G., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 198-205
Entamoeba histolytica, exper. infected *Mesocricetus auratus*, measurement of serologic responses using indirect hemagglutination and enzyme linked immunosorbent assay tests

Immunity

- Norrby, R.; and Eilard, T., 1976, Scand. J. Infect. Dis., v. 8 (4), 275-276
toxoplasmosis, recurrent infection in woman treated with co-trimoxazole, normal clinical response to each course of therapy, no evidence of impaired immunity

Immunity

- Norval, R. A. I., 1975, Proc. 1. Cong. Entom. Soc. South. Africa, 195-201
host-tick interactions reviewed: tick feeding mechanism and innate and acquired host resistance; host specificity

Immunity

- Nozais, J. P.; Truong Minh Ky, D.; and Doucet, J., 1979, Med. Trop., v. 39 (5), 549-553
malaria, newborn infants and young children living in stable hypoendemic area, evaluation of antimalarial antibody titers using Plasmodium berghei as antigen: Abidjan dispensary, Ivory Coast

Immunity

- Nurse, G. T., 1979, Lancet, London (8149), v. 2, 938-940
humans with thalassaemia, role of iron in host tissue as protective mechanism against Plasmodium infections

Immunity

- Nuti, M.; Abdullahi Elmi, S.; and Alario, C., 1979, Boll. Ist. Sieroterap. Milanese, v. 58 (3), 220-223
S[chistosoma] haematobium, human, incidence of hepatitis B surface antigen

Immunity

- Nyindo, M. B. A.; et al., 1978, Am. J. Vet. Research, v. 39 (1), 37-44
Theileria parva, T. lawrencei, cultivation of cell-free schizonts and merozoites in vitro, immunogenicity in cattle inoculated with T. parva merozoites and schizonts and later challenged

Immunity

- Nyindo, M.; et al., 1979, J. Parasitol., v. 65 (5), 751-755
Trypanosoma brucei, in vitro propagation of metacyclic forms derived from salivary glands of Glossina morsitans, addition of specific antiserum to cultures caused agglutination of parasites and rendered them noninfective

Immunity

- Oelerich, S., 1977, Tropenmed. u. Parasitol., v. 28 (4), 539-544
Paragonimus uterobilateralis, P. africanus, Macaca mulatta (exper.), serological changes (indirect hemagglutination, complement fixation, double gel diffusion), cross-reactions occurred but species could be differentiated by disc-electrophoresis; supplemented by parasitologic and radiologic observations of other authors

Immunity

- Ogilvie, B. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 66-71
Necator americanus, man (exper.), evaluation of antibody responses by enzyme-linked immunosorbent assay and by radio-allergo-sorbent technique

Immunity

- Ogilvie, B. M.; Hesketh, P. M.; and Rose, M. E., 1978, Exper. Parasitol., v. 46 (1), 20-30
Nippostrongylus brasiliensis-infected rats, peripheral blood leucocyte response with special reference to basophils and their possible role in worm expulsion

Immunity

- Ogilvie, B. M.; and Mackenzie, C. D., 1977, Immunopathol., 7. Internat. Symp. (Bad Schachen, Germany, June 14-19, 1976), 221-232
nematodes of rodents, immune mechanisms involved in their regulation, review and possible implications for immunology of Strongyloides infections

Immunity

- Ogilvie, B. M.; and Parrott, D. M. V., 1977, Ciba Found. Symp., n.s. (46), 183-201
immunological consequences of nematode infection, review with emphasis on Nippostrongylus brasiliensis and Trichinella spiralis

Immunity

- Ogilvie, B. M.; and Rose, M. E., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 237-248
intestinal nematodes and coccidia compared in terms of host response and immunity, colloquium presentation

Immunity

- Ogilvie, B. M.; and Worms, M. J., 1976, Immunol. Parasit. Infect., 380-407
nematode parasites with special reference to Ascaris, hookworms, and filariae, immunity, review

Immunity

- Olabuenaga, S. E.; et al., 1979, Cellular Immunol., v. 45 (1), 85-93
Trypanosoma cruzi, antibody-dependent cytotoxicity of epimastigotes by human polymorphonuclear leukocytes

Immunity

- Olson, C. E.; and Schiller, E. L., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 521-526
Strongyloides ratti, rats, primary and secondary infections, expulsion kinetics and intestinal mast cell counts, antithymocyte serum suppressed expulsion as well as intestinal mast cell and circulating eosinophil responses to primary infection

Immunity

- Olson, C. E.; and Schiller, E. L., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 527-531
Strongyloides ratti, rats, cortisone suppressed both primary and secondary expulsion and reduced intestinal mast cell response but did not induce hyperinfection, capacity to expel worms was recovered less than 2 weeks after termination of cortisone administration

Immunity

- Olson, L. J.; and Izzat, N. N., 1972, Immun. Animal Parasites, 223-234
immune response to tissue nematodes, review

Immunity

Osoba, D.; et al., 1979, *Immunogenetics*, v. 8 (4), 323-338

Plasmodium falciparum, humans, role of major histocompatibility complex in antibody response under natural conditions: Tanzania

Immunity

Overdulve, J. P., 1978, *Proc. K. Nederl. Akad. Wetensch.*, s. C, *Biol. and Med. Sc.*, v. 81 (1), 1-18

Toxoplasma gondii, non-immunized and immunized cats (primary oral infection followed by challenge), excretion of oocysts, and its role in epidemiology of toxoplasmosis; cats disseminate *T. gondii* mainly by remote and indirect transmission and overall pollution rather than by direct contact between cats and humans

Immunity

Owen, R. L.; Nemanic, P. C.; and Stevens, D. P., 1979, *Gastroenterology*, v. 76 (4), 757-769

Giardia muris in immunocompetent mice, intestinal distribution of trophozoites, attachment and relationships to intestinal mucosa (particularly Peyer's patches), normal reaction of intestine and intestinal immune organs; includes some incidental observations on *Hexamita muris*

Immunity

Palmer, T. T., 1978, *J. Parasitol.*, v. 64 (3), 493-496

Plasmodium berghei, rats, effect of primary patent infection during pregnancy upon course of infection and humoral antibody response in offspring, passive transfer of protective antibody through milk, in utero sensitization by soluble malaria antigens may also exert protective effect

Immunity

Parre, J.; Hussar, U.; and Schattschneider, T., 1977, *Eesti Pollumaj. Akad. Teadusl. Toode Kogum.* (104), 81-89

Eimeria tenella, immunization and subsequent invasion, chicks, mitotic activity of thymus lymphocytes depressed, number of degenerative cell forms in thymus raised, changes correlated with increasing host age

Immunity

Parre, J.; and Suigusaar, M., 1977, *Eesti Pollumaj. Akad. Teadusl. Toode Kogum.* (104), 90-99

Eimeria tenella sporozoites in vitro, neutralized by immune serum and immune gamma-globulin, proof of specific antibodies in serum of immune birds

Immunity

Parrott, D. M. V.; et al., 1976, *Agents and Actions*, v. 6 (1-3), 32-39

factors which determine accumulation of immunoblasts in gut and skin, includes results from *Trichinella spiralis*-infected mice

Immunity

Parrott, D. M. V.; and Rose, M. L., 1978, *Advances Exper. Med. and Biol.*, v. 107, 67-74

T[richinella] spiralis-infected mice, migration pathways of T lymphocytes in small intestine

Immunity

Pascoe, D., 1970, *Acta Parasitol. Polon.*, v. 18 (27-41), 359-368

Microphallus spp.-infected vs. uninfected *Littorina saxatilis tenebrosa* var. *similis*, protein fractions in haemocoelic fluid as revealed by electrophoretic examination, possible association with immunity

Immunity

Patton, S.; et al., 1978, *Am. J. Vet. Research*, v. 39 (1), 19-23

Strongylus vulgaris, ponies (exper.), changes in serum proteins, increased IgT concentration, repeated exposure to small doses of larvae resulted in a significant degree of acquired resistance against a challenge dose

Immunity

Pautrizel, R.; et al., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (4-5), 501-524

Trypanosoma equiperdum, laboratory animals, treatment with irradiation (association of electromagnetic waves and magnetic field), immune response

Immunity

Pautrizel, R.; et al., 1978, *Compt. Rend. Acad. Sc.*, Paris, v. 286, s. D, *Sc. Nat.* (20), 1487-1492

Trypanosoma equiperdum, immunodepressed mice cannot be cured by treatment with an association of electromagnetic waves and a magnetic field

Immunity

Pautrizel, R.; et al., 1978, *Compt. Rend. Acad. Sc.*, Paris, v. 287, s. D, *Sc. Nat.* (5), 575-578

Trypanosoma equiperdum, mice, influence of host age on effectiveness of stimulation of its defenses by electromagnetic radiation, mature immune system is required

Immunity

Pavlov, A. V.; and Chesnokova, T. T., 1974, *Trudy Gel'mint. Lab.*, *Akad. Nauk SSSR*, v. 24 119-126

Ascaridia galli, chickens, nonspecific esterase and cholinesterase activity in helminth tissue in relation to immune status of host

Immunity

Pavlov, P.; and Denev, J., 1970, *Acta Parasitol. Polon.*, v. 18 (1-12), 33-43

Dictyocaulus filaria, lambs infected with 1st, 2nd, or 3rd stage larvae administered by various routes and then reinfected with infective larvae, blood counts, serum proteins, antibody production, worm elimination

Immunity

Payares, G.; and Ercoli, N., 1978, *Exper. Parasitol.*, v. 45 (1), 1-7

Schistosoma mansoni, drug-immobilized cercariae have reduced virulence but are not dead, cercariae become avirulent only when flame cell is affected, no protection against reinfection in mice injected with immobilized cercariae of reduced virulence

Immunity

- Pelley, R. P.; and Warren, K. S., 1978, *J. Invest. Dermat.*, v. 71 (1), 49-55
schistosomiasis, review of current evidence that both induction and amelioration of hepatosplenic disease are immunologically mediated

Immunity

- Perez, H.; Arredondo, B.; and Gonzalez, M., 1978, *Infect. and Immun.*, v. 22 (2), 301-307
Leishmania mexicana, 2 human strains (one from typical case of American cutaneous leishmaniasis and one from case of diffuse cutaneous leishmaniasis) in 2 strains of inbred mice, course of lesions, delayed hypersensitivity response, agglutinating antibodies, in vitro responses to leishmanial antigens and to mitogens, results show impaired immune response in BALB/c mice

Immunity

- Perez, H.; Labrador, F.; and Torrealba, J. W., 1979, *Internat. J. Parasitol.*, v. 9 (1), 27-32
Leishmania mexicana, variations in response of 5 strains of mice (course of infection, delayed type hypersensitivity response, humoral antibody production), crossing experiments between resistant and susceptible strains suggest that resistance is inherited as dominant character

Immunity

- Perrudet-Badoux, A.; et al., 1978, *J. Reticulo-endothel. Soc.*, v. 24 (3), 311-314
Trichinella spiralis, immune interaction between rat peritoneal cells (mostly macrophages and eosinophils) and parasite larvae, ultrastructural study

Immunity

- Perrudet-Badoux, A.; and Binaghi, R. A., 1978, *J. Parasitol.*, v. 64 (1), 187-189
Trichinella spiralis, mice, immunity against newborn larvae after previous oral infection, speculations about pattern of establishment of immune state

Immunity

- Perrudet-Badoux, A.; Binaghi, R. A.; and Boussac-Aron, Y., 1978, *Immunology*, v. 35 (3), 519-522
Trichinella spiralis, primary and secondary infections with 50 larvae in mice genetically selected for high and low antibody production, differential response, implications for mechanism of resistance

Immunity

- Pery, P.; et al., 1979, *Ann. Immunol.*, v. 130C (4), 517-529
cytidine-5'-diphospho-choline conjugates, synthesis and fixation to phosphorylcholine-binding proteins (including to rabbit counterpart of human C-reactive protein in sera of *Nippostrongylus brasiliensis*-immunized rabbits)

Immunity

- Pery, P.; et al., 1979, *Ann. Immunol.*, v. 130C (4), 531-540
cytidine-5'-diphospho-choline conjugates, immunogenicity in rats, protective activity against subsequent challenge with *Nippostrongylus brasiliensis*

Immunity

- Pery, P.; and Luffau, G., 1979, *Antigens (Sela)*, v. 5, 83-172
antigens of helminths, extensive review: immunity to helminths; pathophysiology of antigens; immunodiagnosis and immunoprevention

Immunity

- Phares, C. K.; and Cook, D. E., 1978, *J. Parasitol.*, v. 64 (3), 406-410
effects of bovine pituitary growth hormone vs. *Spirometra mansonoides* plerocercoid growth factor on metabolism of lymphoid tissue (thymus and spleen) in diabetic-hypophysectomized rats

Immunity

- Phillips, P. E.; Kassin, S. S.; and Kagen, L. J., 1979, *Arthritis and Rheum.*, v. 22 (3), 209-214
Toxoplasma gondii, serologic data suggest that idiopathic inflammatory muscle disease is associated with recent active infection in certain patients, pathogenetic role of microorganism remains uncertain

Immunity

- Phillips, S. M.; et al., 1978, *Cellular Immunol.*, v. 38 (2), 225-238
Schistosoma mansoni, rats, development of optimal protective immunity following natural infections and artificial immunizations

Immunity

- Phillips, S. M.; et al., 1978, *Cellular Immunol.*, v. 38 (2), 239-254
Schistosoma mansoni, rats, prerequisite mechanisms whereby natural infection or artificial immunization leads to development of optimal protective immunity, in vivo and in vitro criteria of cellular and humoral immune reactivity evaluated

Immunity

- Phillips, S. M.; and Colley, D. G., 1978, *Progr. Allergy*, v. 24, 49-182
schistosomiasis with emphasis on *Schistosoma mansoni*, immunologic aspects of host responses, extensive review: cellular and humoral immune response; immunopathology; eosinophils

Immunity

- Phillips, S. M.; and Colley, D. G., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 1058-1060
Schistosoma mansoni, brief synopsis of third annual informal Elvio H. Sadun Memorial Workshop on the Immunology of Schistosomiasis

Immunity

- Phillips, S. M.; and Colley, D. G., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 914-915
schistosomiasis, immunology, brief synopsis of fourth annual informal workshop

Immunity

- Piekarski, G.; et al., 1978, *Immun. u. Infekt.*, v. 6 (4), 153-159
Sarcocystis suihominis, medical students fed raw meat from experimentally infected pig, clinical, parasitological, and serological findings

Immunity

- Piessens, W. F.; and Beldekas, M., 1979, *Nature*, London (5741), v. 282, 845-847
Brugia malayi, diethylcarbamazine enhances antibody-mediated cellular adherence to microfilariae

Immunity

- Playfair, J. H. L., 1978, *Current Topics Microbiol. and Immunol.*, v. 80, 37-64
 effective and ineffective immune responses to parasites, evidence from experimental models, review with emphasis on malaria and trypanosomiasis

Immunity

- Playfair, J. H. L.; et al., 1979, *Nature*, London (5740), v. 282, 731-734
Plasmodium yoelii- or *P. berghei*-vaccinated mice, cell-mediated immunity in liver

Immunity

- Playfair, J. H. L.; and De Souza, J. B., 1979, *Parasite Immunol.*, v. 1 (3), 197-208
Plasmodium yoelii- or *P. berghei*-vaccinated mice, immunofluorescent antibody response with particular reference to antibody class and subclass, correlation with protection, passive transfer experiments, effect of macrophage stimulation and inhibition on antibody and on protection

Immunity

- Podboronov, V. M.; and Grokhovskaia, I. M., 1978, *Veterinariia*, Moskva (7), 46-48
Ornithodoros papillipes, bacterial infections, bacteria destroyed by protective action of bactericidal substance causing lysis

Immunity

- Poels, L. G.; van Niekerk, C. C.; and Franken, M. A. M., 1978, *Israel J. Med. Sc.*, v. 14 (5), 575-581
Plasmodium berghei, mice, immunization, possible role of plasmodial antigens exposed on surface of infected reticulocytes in induction of protective immunity, observations on entry of parasites into red blood cells, symposium presentation

Immunity

- Poinar, G. O., jr.; and Hess, R. T., 1977, *Comp. Pathobiol.*, v. 3, 69-84
Rhabditis pellio, ultrastructure of 'brown bodies' enclosing nematodes in coelom of *Aporrectodea trapezoides* indicates that they are host capsules representing a highly successful defense response

Immunity

- Poinar, G. O., jr.; and Hess, R. T., 1977, *Comp. Pathobiol.*, v. 3, 135-154
Ascarophis spp., encapsulation in decapod crustaceans, 2 major types of responses noted, one involves muscle tissue, the other involves blood cells and may halt further development or even destroy the parasite

Immunity

- Poinar, G. O., jr.; Hess, R. T.; and Petersen, J. J., 1979, *J. Nematol.*, v. 11 (1), 110-116
Romanomermis culicivorax, immune responses of *Culex territans* and *Aedes triseriatus*

Immunity

- Pollacco, S.; et al., 1978, *Internat. J. Parasitol.*, v. 8 (6), 457-462
Mesocostoides corti, collagenous encapsulation of tetrathyridia in mouse liver, probably restricts parasite's multiplication, is a T-cell dependent process

Immunity

- Poulter, L. W., 1979, *Clin. and Exper. Immunol.*, v. 36 (1), 30-37
Leishmania enriettii, guinea pigs, kinetics and quality of acquired resistance in self-healing and metastatic cutaneous leishmaniasis

Immunity

- Preston, P. M.; and Dumonde, D. C., 1976, *Immunol. Parasit. Infect.*, 167-202
 clinical and experimental leishmaniasis, immunology, review

Immunity

- Prowse, S. J.; et al., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (5), 561-570
Nematospiroides dubius in nude BALC/c mice, their intact littermates, and T cell-injected nude mice, results show that T cells play dominant role in development of full immunity, in granuloma formation, in worm expulsion, and in immunoglobulin responses

Immunity

- Prowse, S. J.; et al., 1979, *Parasite Immunol.*, v. 1 (4), 277-288
Nematospiroides dubius, 7 inbred strains of mice, differences in natural resistance to primary infection and in development of resistance to challenge infection, host sex differences, IgG₁ and IgG_{2a} concentrations

Immunity

- Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (2), 237-246
Nematospiroides dubius, mice, one or more immunizing infections, development of immunity, absolute and differential cell levels in blood and peritoneum, serum concentrations of various immunoglobulin classes, results suggest that macrophages and eosinophils may play separate roles in immunity to this parasite

Immunity

- Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1979, *Austral. J. Exper. Biol. and Med. Sc.*, v. 57 (5), 459-466
Nematospiroides dubius, cuticle of infective 3rd stage larvae (L3) as well as post-infective and mature forms can activate serum complement via alternative pathway, adherence of mouse peritoneal exudate cells from immune mice to L3 promoted by either complement or antibody resulted in reduced larval infectivity

Immunity

- Prunescu, C.; Prunescu, P.; and Chiriac, E., 1978, *Trav. Mus. Hist. Nat. "Gr. Antipa"*, Bucuresti, v. 19, 71-72
Aplectana acuminata, tissue response in parasitized *Bufo viridis*, inflammatory granuloma as mechanical barrier to cellular damage: Bucharest

Immunity

Przyjalkowski, Z., 1978, *Acta Parasitol. Polon.*, v. 25 (11-20), 169-178

Trichinella spiralis in germfree vs. conventional mice, intensity of infection (greater in conventional mice), elimination of adult worms (earlier and more complete in germfree mice), changes in packed cell volume and differential leukocyte counts (higher eosinophilia in germfree mice), concluded that intestinal microflora plays important role in establishment and elimination of intestinal trichinellae

Immunity

Przyjalkowski, Z., 1978, *Acta Parasitol. Polon.*, v. 25 (21-35), 287-292

Trichinella spiralis in conventional mice and in germfree mice also infected with *Staphylococcus epidermidis* (alone or associated with *Escherichia coli*), numbers of established intestinal trichinellae, time of their expulsion, packed cell volumes, and white blood cell counts, results indicate that size of infective dose, age of mice, and type of intestinal flora play role in course of experimental trichinosis

Immunity

Przyjalkowski, Z.; Bany, J.; and Golinska, Z., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (5), 325-329

Trichinella pseudospiralis, germfree and conventional mice, immunoglobulin and haem-agglutinating antibody levels compared

Immunity

Quinn, T. C.; and Wyler, D. J., 1979, *J. Immunol.*, v. 123 (5), 2245-2249

Plasmodium berghiei, rats, mechanisms of action of hyperimmune serum in mediating protective immunity

Immunity

de Raadt, P., 1974, *Ciba Found. Symp.*, n.s. (20), 199-224

African trypanosomiasis, immunity and antigenic variation, clinical observations suggestive of immune phenomena, review

Immunity

Rajasekariah, G. R.; et al., 1979, *Ztschr. Parasitenk.*, v. 58 (2), 175-180

Fasciola hepatica, unsuccessful attempts to immunise rats and mice by oral dosing with *Taenia hydatigena* eggs or by vaccination with various *T. hydatigena* antigen preparations, results suggest that mice and rats are inappropriate as models for investigating cross-immunity between these 2 species

Immunity

Rajasekariah, G. R.; and Howell, M. J., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (6), 747-756

Fasciola hepatica, rats, acquired immunity against different challenge doses of metacercariae, antibody responses following both primary and challenge infection

Immunity

Rajasekariah, G. R.; and Howell, M. J., 1978, *Exper. Parasitol.*, v. 44 (2), 233-238

Fasciola hepatica, rats, effectiveness of different developmental stages of parasite in stimulating resistance to challenge infection, all implanted stages conferred significant degree of protection with the exception of adult worms

Immunity

Rajasekariah, G. R.; and Howell, M. J., 1979, *J. Parasitol.*, v. 65 (4), 481-487

Fasciola hepatica, rats, transfer of immunity by serum and cells from infected to naive animals, hematological and precipitating antibody responses of recipients

Immunity

Ramalho-Pinto, F. J.; De Rossi, R.; and Smithers, S. R., 1979, *Parasite Immunol.*, v. 1 (4), 295-308

Schistosoma mansoni, mice, anti-schistosomula antibodies and IgG subclasses involved in complement- and eosinophil-mediated killing of schistosomula in vitro

Immunity

Ramalho-Pinto, F. J.; Smithers, S. R.; and Playfair, J. H. L., 1979, *J. Immunol.*, v. 123 (2), 507-514

Schistosoma mansoni, suppression of helper T cell response to TNP-schistosomula in rats and mice

Immunity

Randolph, S. E., 1979, *Parasitology*, v. 79 (1), 141-156

Ixodes trianguliceps, manifestations of acquired resistance in successive infestations of unnatural host (laboratory mice) but not of natural host (*Apodemus sylvaticus*), relevance to concept of host-parasite co-evolution and to tick population regulation

Immunity

Rau, M. E.; Bourns, T. K. R.; and Ellis, J. C., 1975, *Canad. J. Zool.*, v. 53 (5), 642-650

Trichobilharzia ocellata, reproductive success evaluated by passage of viable eggs by ducks exposed to initial and challenge infections, possible immunological basis for decline in egg production

Immunity

Raviprakash, V.; Tewari, H. C.; and Sabir, M., 1978, *Indian Vet. J.*, v. 55 (1), 54-55

Dictyocaulus filaria, sheep (exper.), serum 5-hydroxytryptamine level remains nearly the same throughout different stages of infection

Immunity

Razzakov, Sh. A., 1976, *Med. Parazitol. i Parazitar. Bolezni*, v. 45 (2), 148-152

echinococcal or alveococcal antigen-antibody complexes used to immunize rabbits, resulting sera with narrow specificity, useful for immunochemical analysis of echinococcal or alveococcal antigens

Immunity

Reese, R. T.; and Motyl, M. R., 1979, *J. Immunol.*, v. 123 (4), 1894-1899

Plasmodium falciparum, inhibition of in vitro growth by immune serum and purified immunoglobulin from *Aotus* sp.

Immunity

- Reid, W. M.; Anderson, W. I.; and McDougald, L. R., 1978, *Avian Path.*, v. 7 (4), 569-576
Eimeria spp., turkey poults, anticoccidial protection and development of immunity while using monensin

Immunity

- Remington, J. S.; and Krahenbuhl, J. L., 1976, *Immunol. Parasit. Infect.*, 235-267
Toxoplasma gondii, immunology, review

Immunity

- Renshaw, H. W.; et al., 1976, *Proc. 80. Ann. Meet. U. S. Animal Health Ass.*, 79-88
Anaplasma marginale, cattle, some long-lasting immunity persists after elimination of carrier status with oxytetracycline hydrochloride

Immunity

- Reuben, J. M.; and Tanner, C. E., 1979, *Austral. Vet. J.*, v. 55 (3), 105-108
Echinococcus multilocularis, immunobiological host-parasite relationships, effect of complement, activation of macrophages and immuno-prophylaxis with BCG, review

Immunity

- Reuben, J. M.; Tanner, C. E.; and Portelance, V., 1979, *Infect. and Immun.*, v. 23 (3), 582-586
Echinococcus multilocularis, cotton rats, BCG cell walls are as effective in protecting against infection as the viable organism

Immunity

- Reuben, J. M.; Tanner, C. E.; and Rau, M. E., 1978, *Infect. and Immun.*, v. 21 (1), 135-139
Echinococcus multilocularis in *Sigmodon hispidus*, minimum effective immunoprophylactic dose of BCG which would not induce granulomas, protection coincided with general elevation of leukocytes especially cells of the monocyte/macrophage series, results support evidence for macrophage being principal potential effector cell in hydatid disease

Immunity

- Rezai, H. R.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1079-1083
kala-azar, children, serum immunoglobulin and complement levels, percentage of T and B cells, skin reactivity to *Leishmania* antigen

Immunity

- Rhodes, M. B.; et al., 1978, *Exper. Parasitol.*, v. 45 (2), 255-262
Ascaris suum-immunized pigs, specific antibodies in isolated intestinal loop washings, identification of other proteins present in these washings

Immunity

- Ridley, D. S., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (2), 150-160
leishmaniasis, human cutaneous, histopathology in relationship to immunological mechanisms, logarithmic parasite index to provide framework of various disease forms and their inter-relationships

Immunity

- Riffkin, G. G.; and Dobson, C., 1979, *Vet. Parasitol.*, v. 5 (4), 365-378
Haemonchus contortus, in vitro response of sheep lymphocytes to parasite antigens varied between animals but was heritable and positively correlated with resistance to infection, sheep which were most susceptible had lowest lymphocyte responses but highest rate weight gain during infection

Immunity

- Riley, J.; James, J. L.; and Banaja, A. A., 1979, *Parasitology*, v. 78 (1), 53-66
Reighardia sterna, possible role of frontal and sub-parietal gland systems in evasion of host immune response, surface membrane system believed to be instrumental, related observations on *Porocephalus crotali*, parallels with situation of schistosome infections in mammals, alternative explanation of concomitant immunity

Immunity

- Rizk, G. R.; et al., 1978, *Egypt. J. Bilharz.*, v. 4 (1), 1977, 63-68
Schistosoma mansoni infected and non-infected *Biomphalaria glabrata* and *B. alexandrina*, immunoelectrophoretic cross-reactions between hepatopancreas antigens

Immunity

- Roberts, D. W.; and Weidanz, W. P., 1978, *Infect. and Immun.*, v. 20 (3), 728-731
Plasmodium yoelii in immunologically competent mice and mice with defined immunological deficiencies, results indicate that splenomegaly, enhanced phagocytosis, and anemia are thymus-dependent responses to malaria infection

Immunity

- Roberts, D. W.; and Weidanz, W. P., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 1-3
Plasmodium yoelii, B-cell deficient mice drug-rescued from otherwise lethal infections resisted subsequent challenge despite lack of detectable antibody

Immunity

- Roberts-Thomson, I. C.; and Mitchell, G. F., 1978, *Gastroenterology*, v. 75 (1), 42-46
Giardia muris, course of infection in inbred mouse strains and in nude mice, susceptibility to reinfection in inbred strains, cell and serum transfer studies in nude mice, small bowel morphology in infected mice, potential use of this *Giardia* model

Immunity

- Robertson, D. A., 1979, *J. Fish Dis.*, v. 2 (6), 481-491
Ichtyobodo necator on farmed salmonids, prevalence and intensity in relation to time, temperature, and host age; suggested that some form of host defense mechanism is operating: central Scotland

Immunity

- Robinett, J. P.; and Rank, R. G., 1979, *Infect. and Immun.*, v. 23 (2), 270-275
Trypanosoma musculi, mice, splenomegaly is T cell-dependent and is the result of proliferation of B and/or T lymphocytes

Immunity

Romestand, B., 1979, *Ann. Parasitol.*, v. 54 (4), 423-448

Cymothoidae of teleost fish, hematophagy, host immune response, biochemical, histological, haematological, and biometrical (growth) changes in infected hosts

Immunity

Rose, J. E.; et al., 1978, *Am. J. Vet. Research*, v. 39 (5), 791-793

Anaplasma marginale, cattle (exper.), conglutinin, immunconglutinin, and complement levels in peracute and acute stages of infection, study of disease process, possible improvement of card agglutination test

Immunity

Rose, M. E., 1972, *Immun. Animal Parasites*, 365-388

immune response to *Eimeria*, review

Immunity

Rose, M. E.; et al., 1979, *Parasite Immunol.*, v. 1 (2), 125-132

Eimeria nieschulzi, *Nippostrongylus brasiliensis*, failure of nude (athymic) rats to become resistant to reinfection

Immunity

Rose, M. E.; and Hesketh, P., 1979, *Infect. and Immun.*, v. 26 (2), 630-637

Eimeria spp. infections in normal animals vs. in animals with functional deficiencies in either T-lymphocytes or B-lymphocytes

Immunity

Rose, M. E.; Hesketh, P.; and Ogilvie, B. M., 1979, *Immunology*, v. 36 (1), 71-79

Eimeria maxima, chickens, *E. nieschulzi*, rats, primary and secondary infections, *E. maxima*-immunized chickens challenged with *E. acervulina*: peripheral blood leucocyte response, correlation with resistance to reinfection

Immunity

Rose, M. L.; Parrott, D. M. V.; and Bruce, R. G., 1978, *Immunology*, v. 35 (2), 415-423

mesenteric and peripheral T immunoblasts, migration followed in mice with multiple sites attractive to immunoblasts (including inflamed gut produced by *Trichinella spiralis* infection)

Immunity

Rosenberg, Y. J., 1978, *Nature, London* (5667), v. 274, 170-172

Plasmodium berghei yoelii, mice, plaque-forming cell assays used to reveal pattern of both total and antigen-specific splenic B lymphocyte activation and to define anti-erythrocytic autoimmune response, both responses shown to be T-cell dependent

Immunity

Rosenberg, Y. J.; and Evans, C. B., 1979, *Nature, London* (5729), v. 281, 302-304

Babesia microti, mice suppressed for IgM production, resistance to infection as reflected by virtual absence of parasites in peripheral circulation

Immunity

Rothwell, T. L. W.; et al., 1978, *Parasitology*, v. 76 (2), 201-209

Trichostrongylus colubriformis, guinea pigs, establishment of two lines differing significantly in susceptibility to infection, difference probably based on genetically determined differences between ability of members of each line to bring about immune expulsion of parasite

Immunity

Rousseaux-Prevost, R.; et al., 1978, *Immunology*, v. 35 (1), 33-39

Schistosoma mansoni in 2 strains of rat, time course of occurrence of specific IgE antibodies, correlation with protective immunity

Immunity

Ruitenbergh, E. J.; and Elgersma, A., 1979, *Brit. J. Exper. Path.*, v. 60 (3), 246-251

Trichinella spiralis, mice, response of intestinal globule leucocytes during infection and its independence of intestinal mast cells

Immunity

Ruitenbergh, E. J.; Elgersma, A.; and Kruizinga, W., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 60 (3), 302-309

Trichinella spiralis, rats, intestinal mast cells and globule leucocytes, role of thymus in their presence and proliferation

Immunity

Russell, D. A.; and Castro, G. A., 1979, *J. Infect. Dis.*, v. 139 (3), 304-312

Trichinella spiralis, rats, immune rejection of worms in secondary infections involves physiologically and presumably immunologically distinct 'early' and 'late' responses with each having different developmental stage of parasite as target, contrast with primary infection

Immunity

Salata, E.; Barbosa, M. A.; and Correa, F. M. A., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 211-214

Trypanosoma cruzi, antibody production in mice inoculated with irradiated vs. non irradiated culture forms of parasite

Immunity

Sanda, A., 1977, *Acta Vet. Brno*, v. 46 (3-4), 311-314

Eimeria tenella, one-day-old chicks, reliable immunity within 5-6 days after low initial dose of oocysts

Immunity

Sanderson, C. J.; Bunn Moreno, M. M.; and Lopez, A. F., 1978, *Parasitology*, v. 76 (3), 299-307

Trypanosoma cruzi, cytotoxicity of normal rat spleen cells to antibody-coated epimastigotes studied by assaying release of tritium-labelled RNA, DNA, and protein

Immunity

de Santana, J. V.; Magalhaes, L. A.; and Rangel, H. de A., 1978, Rev. Saude Pub., S. Paulo, v. 12 (1), 67-77

populations of *Biomphalaria tenagophila* and *B. glabrata* which are highly susceptible to *Schistosoma mansoni* strains from the Valley of Paraiba do Sul River and Belo Horizonte areas have been obtained after four generations by using a schedule of individual selections; this rapid genetic gain in susceptibility shows that molluscan susceptibility is highly inheritable and apparently conditioned by a few genes

Immunity

Santoro, F.; et al., 1978, Clin. and Exper. Immunol., v. 32 (3), 435-442

Schistosoma mansoni-infected rats, detection of circulating schistosome antigens (CSA) and circulating immune complexes (CIC), possible role played by CIC in protective mechanisms to challenge infection

Immunity

Santoro, F.; Liebart, M. C.; and Capron, A., 1978, Protides Biol. Fluids, v. 26, 215-218
Schistosoma mansoni, human, circulating antigens, antibodies, and immune complexes in milk from infected mothers

Immunity

Santoro, F.; Ouassiss, M. A.; and Capron, A., 1979, IRCS J. Med. Sc., v. 7 (11), 576
Schistosoma mansoni immature forms, surface receptors for complement (C1q and C3b) which disappear with development

Immunity

Sauvager, F.; and Fauconnier, B., 1978, Bio-medicine Express, v. 29 (6), 184-187
Plasmodium berghei, mice, protective effect of endogenous interferon in mouse malaria demonstrated by increase in death rate and in % parasitized erythrocytes in infected mice treated with anti-interferon globulins

Immunity

Schanbacher, L. M.; et al., 1978, Am. J. Physiol., v. 234 (5), R188-R195
Trichinella spiralis, dogs, changes in intestinal motility are associated temporally with symptoms related to gastrointestinal tract, magnitude of change is inversely related to resistant state of host

Immunity

Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 24-28
ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics

Immunity

Schmidt-Ullrich, R.; and Wallach, D. F. H., 1978, Proc. National Acad. Sc., v. 75 (10), 4949-4953
Plasmodium knowlesi in *Macaca mulatta*, parasite-induced antigens in membranes of parasitized erythrocytes, possible relevance to development of antimalarial vaccines

Immunity

Schmunis, G. A.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (5), 323-331
Trypanosoma cruzi-infected mice inoculated with sheep red blood cells, alterations in immune response and their possible mechanisms

Immunity

Schmunis, G. A.; et al., 1978, Infect. and Immun., v. 20 (2), 567-569
Trypanosoma cruzi, induction of capping in blood-stage trypomastigotes by human specific antibody

Immunity

Schraw, W. P.; and Vaughan, G. L., 1979, Exper. Parasitol., v. 48 (1), 15-26
Trypanosoma lewisi, membrane function (glucose, leucine, and potassium transport; 5'nucleotidase activity) in dividing and ablastin-inhibited trypanosomes

Immunity

Scofield, A. M., 1978, Comp. Biochem. and Physiol., v. 59B (4), 295-298
Nematospirides dubius- or *Nippostrongylus brasiliensis*-infected rats, Pasteur effect could not be shown in host jejunum mainly due to reduced rate of anaerobic lactate production, possible relationship of loss of Pasteur effect to immune response

Immunity

Seed, J. R.; et al., 1978, Am. Midland Naturalist, v. 100 (1), 126-134
Trypanosoma brucei gambiense-infected wild and laboratory *Microtus montanus* males, organ weights, parasite stress as cause of enlarged spleens and smaller gonads, splenomegaly can be used as survey marker to determine extent of parasitism in field populations, reduced reproductive potential suggests that parasitism plays role in limiting host population density: Jackson Hole, Wyoming

Immunity

Senft, A. W.; Gibler, W. B.; and Knopf, P. M., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 258-266
Schistosoma mansoni, tegument development in permissive (mouse, hamster) vs. non-permissive (rat) hosts, scanning electron microscopy

Immunity

Sethi, K. K.; and Brandis, H., 1978, Ztschr. Immunitaetsforsch., v. 154 (3), 226-242
Toxoplasma gondii, characteristics of soluble T-cell derived factor(s) which can induce non-immune murine macrophages to exert anti-toxoplasma activity

Immunity

Shakespeare, P. G.; Trigg, P. I.; and Tappenden, L., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 333-343
Plasmodium knowlesi, surface properties of normal rhesus monkey erythrocytes and of infected erythrocytes, externally disposed protein used as probes of surface changes, pigment-free preparation of membrane protein: obtained, possible application in preparing specific antigens

Immunity

Sharma, S. P.; and Gautam, O. P., 1978, Arch. Vet., Inst. Cercet. Vet.-si Bioprep. Pasteur, v. 13, 117-126

Toxoplasma gondii, pregnant ewes (exper.), clinical manifestations, serology, macroscopic and microscopic findings, histopathology

Immunity

Shcheulov, A. P., 1974, Parazitologiya, Leningrad, v. 8 (6), 553-562

Toxoplasma gondii, rabbits immunized with high vs. low virulence strain, immunodiffusion and complement fixation tests, serum protein fractions

Immunity

Shchukin, P. I.; et al., 1978, Izvest. Akad. Nauk SSSR, s. Biol. (1), 121-130

antigens of swine ascarids administered to three different strains of rat, differences in immune response

Immunity

Shear, H. L.; Nussenzweig, R. S.; and Bianco, C., 1979, J. Exper. Med., v. 149 (6), 1288-1298

Plasmodium berghei-infected mice, phagocytosis of erythrocytes by spleen macrophages appears to be mediated by Ig on surface; other indications of spleen macrophage activation; phagocytosis is inhibited later in infection by serum factors possibly immune complexes; high levels of anti-Forssman antibodies

Immunity

Sheikh, N. A., 1977, Pakistan J. Scient. Research, Lahore, v. 29, 1-6

R[hipicephalus] appendiculatus, rabbits, immune response to different number of ticks feeding at same time, engorgement and moulting periods, amounts of blood ingested; density dependent effect possibly due to increased cellular reaction of sensitized host

Immunity

Sher, A., 1977, Progr. Immunol. III, 688-695

Schistosoma mansoni, mice, effector mechanisms in host response, review

Immunity

Sher, A.; Hall, B. F.; and Vadas, M. A., 1978, J. Exper. Med., v. 148 (1), 46-57

Schistosoma mansoni schistosomula recovered from mice or cultured in presence of murine lymphoid cells express murine alloantigens among which are gene products of the murine major histocompatibility complex, biological significance unclear, possible role in evasion of immune response

Immunity

Shirahata, T.; et al., 1977, Ztschr. Parasitenk., v. 53 (1), 31-40

Toxoplasma gondii in vitro, mouse immune lymphocytes produce lymphokine which inhibits intracellular multiplication of parasite within nonimmune mouse macrophages; biological aspects; substance named Toxoplasma growth inhibitory factor (Toxo-GIF)

Immunity

Siddiqi, M. N.; and Meerovitch, E., 1977, Pakistan J. Zool., v. 9 (1), 51-57

Trichinella spiralis, 3 newly isolated strains compared with classical strain during intestinal phase of infection in rats (moulting pattern, % recovery of adult worms, their size and sex ratio), significantly smaller size of worms in 3 new strains, inhibition of development expressed by host resistance as one of several possible causes

Immunity

Siebert, A. E., jr.; and Good, A. H., 1979, Exper. Parasitol., v. 48 (1), 164-174

Taenia crassiceps, effort of normal and immune serum on metacestodes in vitro

Immunity

Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1978, Internat. J. Parasitol., v. 8 (1), 39-43

Taenia crassiceps, mice, kinetics of primary and secondary infections, prior subcutaneous implantation of larvae stimulates immunity to larvae inoculated intraperitoneally, two distinct components in host response, reduction in host response associated with increased worm burdens may indicate possible

Immunity

Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1978, Internat. J. Parasitol., v. 8 (1), 45-53

Taenia crassiceps, mice, ultrastructural aspects of early immune damage to metacestodes, tegument damage is attributed to complement-mediated lysis of outer tegument membrane and death of larvae probably results from loss of tegument function

Immunity

Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1979, Internat. J. Parasitol., v. 9 (4), 323-331

Taenia crassiceps, mice, ultrastructural aspects of host cellular immune response to metacestodes

Immunity

Silakova, L. N.; and Pustovgar, I. E., 1971, Parazitologiya, Leningrad, v. 5 (6), 539-541

Trichinella spiralis, white mice, effect of splenectomy on course of infection

Immunity

Singh, B. B.; and Rao, B. V., 1977, Riv. Parasitol., Roma, v. 38 (1), 5-6

Taenia taeniaeformis cysticerci, albino rats found to be immune to superinfection

Immunity

Singh, J.; and Gill, B. S., 1976, Riv. Parasitol., Roma, v. 37 (1), 57-62

Eimeria necatrix, different levels of infection, chicks, activity of decoquinate used prophylactically and therapeutically, effect on development of immunity

Immunity

Singh, J.; and Gill, B. S., 1976, Riv. Parasitol., Roma, v. 37 (1), 63-70

Eimeria necatrix, different levels of infection, chicks, activity of amprolium used prophylactically and therapeutically, effect on development of immunity

Immunity

Singh, J.; and Hussain, O., 1978, Indian Vet. J., v. 55 (1), 56-60

Eimeria tenella, chicks (exper.), amprolium provided better protection than codrinal, both drugs interfered to some extent with development of immunity

Immunity

Sinski, E., 1975, Acta Parasitol. Polon., v. 23 (41-51), 635-652

Ostertagia circumcincta, sheep, single and multiple infections, serum proteins, antibodies in serum and abomasal mucosa as determined with hemagglutination and precipitation tests

Immunity

Sirishinha, S., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 142-152

humoral immune response in parasitic infections, review

Immunity

Slutzky, G. M.; and Greenblatt, C. L., 1979, Biochem. Med., v. 21 (1), 70-77

Leishmania tropica, immunologically active factor from growth media, intact promastigotes, heavily infected macrophages, and amastigotes recovered from macrophage culture, analysis by SDS-polyacrylamide gel electrophoresis

Immunity

Smith, H. J., 1978, Vet. Parasitol., v. 4 (3), 265-273

Trichonema spp., re-infection of mature (9 and 10 year old) parasite-free sensitized ponies, findings indicate development of strong resistance which may be partly associated with host age and demonstrate the pathogenesis of inhibited larvae which may be retained by resistant ponies for prolonged periods of time

Immunity

Smith, H. V.; Herbert, I. V.; and Davis, A. J., 1979, Immunology, v. 38 (4), 659-664

Hyostrongylus rubidus, pigs, primary infection, numbers of immunoglobulin-positive cells in stomach

Immunity

Smith, H. V.; and Kusel, J. R., 1979, Clin. and Exper. Immunol., v. 36 (3), 430-435

Schistosoma mansoni, acquisition of antigens in intracellular substance of mouse skin by schistosomula

Immunity

Smith, M. A.; and Clegg, J. A., 1979, Parasitology, v. 78 (3), 311-321

Schistosoma mansoni, mice, wide variations in level of immunity to challenge infection are related to variation between different pools of cercariae rather than to variability in immune response of host

Immunity

Smith, R. D.; et al., 1979, Am. J. Vet. Research, v. 40 (12), 1678-1682

babesiosis, cattle, vaccination experiments to assess immunogenicity of and protection conferred by culture-derived *Babesia bovis* antigens against tick-borne infection

Immunity

Smith, W. D.; and Christie, M. G., 1978, Internat. J. Parasitol., v. 8 (3), 219-223

Haemonchus contortus, sheep, immunization with irradiated larvae, resistance to challenge infection was associated with increased concentrations of IgG antibodies in serum as well as IgA and IgG antibodies in abomasal mucosa

Immunity

Smith, W. D.; and Christie, M. G., 1979, J. Comp. Path., v. 89 (1), 141-150

Haemonchus contortus, lambs (exper.), factors influencing degree of host resistance after immunization with attenuated larvae

Immunity

Smithers, S. R., 1976, Immunol. Parasit. Infect., 296-332

Schistosomiasis, fascioliasis, *Clonorchis sinensis*, *Apatemon gracilis*, immunity, review

Immunity

Smithers, S. R.; and Ramalho-Pinto, F. J., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 39-49

Schistosoma mansoni, concomitant immunity, response of host to schistosomular surface antigens, colloquium presentation

Immunity

Smrkovski, L. L.; Larson, C. L.; and Reed, S. G., 1979, Infect. and Immun., v. 25 (3), 1078-1080

Leishmania donovani, increased susceptibility in congenitally athymic mice, correlated with lack of Arthus and delayed type responses

Immunity

Sogandares-Bernal, F.; and Voge, M., 1978, J. Parasitol., v. 64 (4), 620-624

Mesocostoides corti from infected mice or maintained in culture medium and then exposed to immune mouse serum, 7S_{2b} antibodies found attached to body surfaces and wall of excretory bladder of tetrathyridia

Immunity

Sogorb S., F.; et al., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (3), 131-138

Toxoplasma gondii, sibling kittens infected per os or parenterally with cysts or trophozoites, serological studies of kittens and mother cats, course of infection; immunity and transmission discussed

Immunity

Song, M.; and Di Luzio, N. R., 1979, Lysosomes Applied Biol. and Therap., v. 6, 533-547

yeast glucan and immunotherapy of infectious diseases, review including section on *Plasmodium berghei*

Immunity

Soulsby, E. J. L., 1978, Handb. Exper. Immunol. (Weir), 3. ed., 43.1-43.22

immunological methods in helminthology, review

Immunity

de Souza, M. do C. M., 1974, Rev. Patol. Trop., v. 3 (3), 291-332

Leptomonas pessoai, antigenic relationships with other trypanosomatids, cross-protection of mice against *Trypanosoma cruzi*

Immunity

- Spencer, H. C.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 664-670
Plasmodium falciparum, *P. vivax*, human (Duffy blood group positive and negative, black and white), indirect fluorescent antibody titers, slide-demonstrated infection rates, Duffy negative genotype appears to be factor in resistance to *P. vivax*: Honduras

Immunity

- Stankiewicz, M., 1970, Acta Parasitol. Polon., v. 18 (27-41), 463-472
Strongyloides papillosus, sheep, complement fixing and precipitating antibodies after infection and re-infections

Immunity

- Stankiewicz, M.; Maddison, S. E.; and Kagan, I. G., 1975, Acta Parasitol. Polon., v. 23 (26-40), 417-423
Trichinella spiralis, cell adherence reactions to infective larvae in presence of serum

Immunity

- Steelman, S. L.; et al., 1971, Recent Progr. Hormone Research, v. 27, 97-120
Spirometra mansonioides, comparative study of sparganum growth factor (SGF) and growth hormone: growth-promoting properties, metabolic actions on bone and protein synthesis, effects on carbohydrate and lipid metabolism, source and physicochemical properties of SGF, development of resistance to SGF (result of neutralizing antibodies)

Immunity

- Stein, P. C.; and Basch, P. F., 1979, J. Invert. Path., v. 33 (1), 10-18
Biomphalaria glabrata, purification of hemagglutinin from hemolymph, albumin glands, and egg masses, binding to *Schistosoma mansoni* larval stages in vitro and in vivo

Immunity

- Stemberger, H., 1978, Immun. u. Infekt., v. 6 (2), 71-78
E. histolytica, investigation of cytolytic action of antibody, complement, and normal human peripheral blood lymphocytes as well as action of peripheral blood lymphocytes from donor with amoebic liver abscess

Immunity

- Stevens, D. P.; Frank, D. M.; and Mahmoud, A. A. F., 1978, J. Immunol., v. 120 (2), 680-682
Giardia muris in nude mice, demonstration of persistent infection and failure to acquire demonstrable resistance to subsequent challenge

Immunity

- Storey, J.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 311-315
 malaria, immunoglobulins and antimalarial antibodies in haemoglobin AC individuals, little difference from rest of population except for higher IgG levels, suggests that haemoglobin C gene's geographical relationship to malaria may be coincidence: Sudan savanna of Nigeria

Immunity

- Strickland, G. T., 1978, Tropenmed. u. Parasitol., v. 29 (2), 198-203
Plasmodium-infected humans, sera are mitogenic for mouse splenic lymphocytes and interfere with indirect hemagglutination test for lipid-A antibodies

Immunity

- Strickland, G. T.; DeSilva, S.; and Sayles, P. C., 1979, Tropenmed. u. Parasitol., v. 30 (1), 35-42
Plasmodium yoelii infection in mice and *P. falciparum* and *P. vivax* infection in humans, changes in lymphocyte populations during acute infections thought to be related to development of malarial immunity and immunodepression

Immunity

- Stromberg, B. E., 1979, Immunology, v. 38 (3), 489-495
Ascaris suum, new allergen (ACF antigen) obtained from developing larvae maintained in chemically defined culture medium, production of IgE and IgG antibodies in guinea-pigs, importance of route of administration

Immunity

- Sturrock, R. F.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 251-261
Schistosoma mansoni in *Papio anubis*, development of resistance to homologous challenge, correlation of in vitro tests (anti-schistosoma antibody and peripheral leucocyte cytotoxic activity) with in vivo immune status

Immunity

- Subrahmanyam, D.; et al., 1978, J. Clin. Microbiol., v. 8 (2), 228-232
Wuchereria bancrofti, adhesion of peripheral blood leukocytes (PBL) to microfilariae (MF) in vitro promoted by sera from elephantiasis cases or from normal persons living in endemic areas for several years but not by sera from MF carriers or from normal subjects from nonendemic areas, adhesion was complement independent and associated with IgG fraction, studies suggest occurrence of cell-mediated cytotoxicity to MF in presence of elephantiasis serum, *Litomosoides carinii* MF adhered to human PBL or rat spleen cells in presence of serum or its IgG fraction from elephantiasis patients

Immunity

- Suemura, M.; and Ishizaka, K., 1979, J. Immunol., v. 123 (2), 918-924
Nippostrongylus brasiliensis, potentiation of IgE response in vitro by T cells from infected rats

Immunity

- Suemura, M.; Urban, J. F., jr.; and Ishizaka, K., 1978, J. Immunol., v. 121 (6), 2413-2421
Nippostrongylus brasiliensis, development of IgE-forming cells in vitro from rat mesenteric lymph node cells

Immunity

- Sullivan, J. T.; and Palmieri, J. R., 1978, J. Parasitol., v. 64 (5), 939-940
Echinostoma malayanum, infection rate of *Indoplanorbis exustus* (exper.) decreased as shell diameter increased, cause of relative nonsusceptibility of large snails not known

Immunity

Sullivan, T. J.; Parker, K. L.; and Parker, C. W., 1973, Research Commun. Chem. Path. and Pharmacol., v. 6 (2), 709-717

Dirofilaria immitis incubated in dog blood, ability of antibody-enzyme conjugates to specifically kill microfilariae, conjugates shown to attach to parasite surfaces, attachment inhibited by soluble *D. immitis* antigens indicating that immunologically specific reaction involved

Immunity

Sutherst, R. W.; Wagland, B. M.; and Roberts, J. A., 1978, Internat. J. Parasitol., v. 8 (4), 321-324

Boophilus microplus on previously unexposed 'naive' *Bos taurus* and *Bos indicus*, tick survival at various levels of infestation, results indicate that density-dependent tick mortality is attributable mainly to acquired host resistance rather than to crowding

Immunity

Suvatte, V.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (3), 358-367
acquired platelet dysfunction with eosinophilia, children, postulation on possible relationships of intestinal parasites and host defense mechanism

Immunity

Swietlikowski, M., 1974, Acta Parasitol.

Polon., v. 22 (35-44), 459-471

Dictyocaulus viviparus, calves, four age groups, double immunization, challenged one month later, course of defence reaction

Immunity

Swietlikowski, M., 1975, Acta Parasitol. Polon., v. 23 (1-11), 147-157

Dictyocaulus filaria did not develop to sexual maturity in calves but in some circumstances provided weak resistance to challenge with *D. viviparus*, 1000 larvae given to calves under 3 months of age provoked symptoms of clinical dictyocaulosis, serological findings indicate differences in antigen structure of the 2 species

Immunity

Swietlikowski, M.; and Moczon, T.; 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (8), 549-554

Hymenolepis diminuta, lack of protective immunity in rats following immunization with increasing doses of oncospheres, cysticeroids, and mature *Hymenolepis homogenates*

Immunity

Tachon, P.; and Borojevic, R., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 605-609

Schistosoma mansoni, prenatal sensitization to schistosomal antigen in children born to infected mothers

Immunity

Takayanagi, T.; et al., 1978, Exper. Parasitol., v. 44 (1), 82-91

Trypanosoma gambiense, neonatal rats receiving antibodies from female, protective, agglutinating, and phagocytosis-promoting characteristics of sera

Immunity

Tanaka, J.; Baba, T.; and Torisu, M., 1979, J. Immunol., v. 122 (1), 302-308

Ascaris suum, eosinophil chemotactic factor of parasite (ECF-P), isolation, characterization, not identical to *Ascaris* antigens, neutrophil chemotactic factor also present in *Ascaris* extract is separable from ECF-P

Immunity

Tanner, C. E., 1978, J. Parasitol., v. 64 (5), 956-957

Trichinella spiralis, susceptibility of several inbred lines of mice differing at the H-2 histocompatibility locus, no significant differences found in level of infection between any of the different mouse strains used, results suggest that intensity of infections with *T. spiralis* is probably not controlled by genes of the H-2 region

Immunity

Tanner, C. E.; Lim, H. C.; and Faubert, G., 1978, Exper. Parasitol., v. 45 (1), 116-127

Trichinella spiralis infection causes dramatic changes in mouse's thymic, splenic, and lymph node cell populations, suggested that these phenomena contribute to the immunosuppression which is characteristic of *T. spiralis* infections

Immunity

Tavares, C. A. P.; et al., 1978, Exper. Parasitol., v. 46 (2), pp. 145-151

Schistosoma mansoni, complement-mediated cytotoxic activity in vitro and effect of decomplexation on acquired immunity in mice, results strongly suggest that complement system is one of effector mechanisms in concomitant immunity in schistosomiasis

Immunity

Tavares, C. A. P.; et al., 1978, Parasitology, v. 77 (2), 225-233

Schistosoma mansoni, evidence for role of serum factors in protecting artificially transformed schistosomula against antibody-mediated killing in vitro

Immunity

Teixeira, A. R. L.; et al., 1978, J. Clin. Invest., v. 62 (6), 1132-1141

Trypanosoma cruzi, children with apparent vs. inapparent acute Chagas' disease, clinical and laboratory findings, humoral antibody response, delayed-type skin responses, inhibition of leukocyte migration, serum proteins and immunoglobulins; demonstration of cell-mediated immunodepression in inapparent acute disease

Immunity

Teixeira, A. R. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1097-1107

Chagas' disease, serum antibody titers, delayed skin response, inhibition of leukocyte migration by *Trypanosoma cruzi* antigen and by cross-reactive heart cell antigen, cytotoxicity of sensitized T-lymphocytes to parasitized human heart cells

Immunity

Terry, R. J., 1976, Immunol. Parasit. Infect., 203-221

African trypanosomiasis, immunity, review

Immunity

Terziiski, A.; and Dragneva, N., 1976, *Khel-mintologiya*, Sofia, v. 1, 99-104

Ascaris suum, guinea pigs, immunization per os and parenterally, comparison of host response, results suggest that not serum antibodies but other antibodies (IgA) or other mechanisms play essential role in oral immunization with *Ascaris* antigen

Immunity

Tewari, H. C.; and Singh, (Kr.) S., 1979, *Indian J. Animal Sc.*, v. 49 (8), 643-645

Schistosoma incognitum miracidia, effects of normal and immune sera and of complement

Immunity

Thiery, G., 1978, *Ann. Immunol.*, v. 129C (4), 503-522

rabbit's appendix, immunological model applied to study of epithelial immunity, including that against coccidiosis

Immunity

Thiery, G., 1978, *Bull. Acad. Vet. France*, n.s., v. 51 (2), 211-216

coccidiosis, rabbit, mechanism of epithelial immunity in caecal appendix

Immunity

Thompson, R. C. A.; and Penhale, W. J., 1978, *Ztschr. Parasitenk.*, v. 56 (2), 195-203

Mesocostoides corti tetrathyridia, mice given BCG, either enhancement or inhibition of parasite proliferation, depending upon BHC dosage level and time interval between dosage and parasite challenge, possible reasons for both effects

Immunity

Thong, Y. H.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (2, pt. 1), 238-240

Naegleria fowleri, mice immunized with live parasites by intraperitoneal injection were found to be more resistant to subsequent intranasal challenge

Immunity

Thong, Y. H.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (6), 650-652

Naegleria fowleri, mice immunized with live organisms acquire resistance to challenge, protective immunity can be transferred by immune serum but not by immune cells, mechanism of this immunity unknown

Immunity

Thoongsuwan, S.; Cox, H. W.; and Patrick, R. A., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1060-1066

Plasmodium chabaudi, *Babesia rodhaini*, rats, serologic specificity of immunoconglutinin associated with infectious anemia and its role in nonspecific acquired resistance

Immunity

Thorne, K. J. I.; et al., 1979, *Parasitology*, v. 79 (3), 367-379

Trypanosoma dionisii, phagocytosis and killing by human neutrophils, eosinophils, and monocytes, importance of specific anti-serum in this system

Immunity

Thorne, K. J. I.; Syvennsen, R. J.; and Franks, D., 1978, *Infect. and Immun.*, v. 21 (3), 798-805

Trypanosoma dionisii, cytotoxicity of granulocytes and lymphocytes to antibody-coated parasites, granulocytes (and probably also lymphocytes) kill the parasite with hydrogen peroxide by a peroxidase-mediated reaction

Immunity

Todd, A. C.; et al., 1978, *Mod. Vet. Pract.*, v. 59 (7), 507-510

subclinical parasitism in dairy and beef cattle, economic importance, resistance and immunity, treatment, review

Immunity

Torpier, G.; Capron, A.; and Ouaisi, M. A., 1979, *Nature*, London (5703), v. 278, 447-449

Schistosoma mansoni, receptor for IgG(Fc) and human β_2 -microglobulin on schistosomula

Immunity

Torpier, G.; Ouaisi, M. A.; and Capron, A., 1979, *J. Ultrastructure Research*, v. 67 (3), 276-287

Schistosoma mansoni, immune-induced membrane alterations, freeze-fracture study, complement-dependent damage in presence of antisera to host antigenic determinants

Immunity

Torres-Rodriguez, J. M.; and Wisnivesky, C., 1978, *Ann. Parasitol.*, v. 53 (5), 479-486

Echinococcus granulosus, mice (exper.), kinetics of serological response, immunoelectrophoresis, double diffusion, latex agglutination, and passive hemagglutination

Immunity

Toshkov, A.; et al., 1978, *Ztschr. Parasitenk.*, v. 55 (1), 49-54

Trichinella spiralis in rats (exper.) infected 20 days later with *Erysipelothrix rhusiopathiae*, clinical and pathoanatomic changes in joints, immunological features

Immunity

Toure, S. M.; et al., 1978, *Rev. Elevage et Med. Vet. Pays Trop.*, n. s., v. 31 (3), 293-313

Trypanosoma vivax, *T. congolense*, zebu and N'Dama cattle, pathology compared, N'Dama not as susceptible as zebu and some displayed a remarkable immunity: Missira, Senegal

Immunity

Trangle, K. L.; et al., 1979, *Parasite Immunol.*, v. 1 (2), 133-140

Schistosoma mansoni, S. haematobium, school children, prevalence and severity of infection in relation to blood group type and ability to secrete blood group antigens: Swaziland

Immunity

Tribouley, J.; Tribouley-Duret, J.; and Appriou, M., 1978, *Compt. Rend. Soc. Biol.*, Paris, v. 172 (5), 902-904

Schistosoma mansoni, nude mice injected with BCG decreased recovery of pulmonary schistosomes compared to non-injected controls

Immunity

Tribouley, J.; Tribouley-Duret, J.; and Appriou, M., 1979, *Path. Biol.*, v. 27 (8), 491-492

Schistosoma mansoni, mice, nonspecific resistance after injection or reinjection of BCG

Immunity

Trigg, M. E., 1979, *South. Med. J.*, v. 72 (5), 593-599

immune functions of the spleen, includes information on malaria with special reference to *Plasmodium inui* in rhesus monkeys

Immunity

Trischmann, T.; et al., 1978, *Exper. Parasitol.* v. 45 (2), 160-168

Trypanosoma cruzi (Brazil strain), characteristics of resistant and susceptible strains of mice following challenge, results suggest a necessary association of natural resistance with the immune response, principal genetic determinant of resistance is not associated with H-2 haplotype

Immunity

Tronchin, G.; et al., 1979, *J. Parasitol.*, v. 65 (5), 685-691

Trichinella spiralis, infected mice, mice immunized with metabolic antigens, mice immunized and then infected, kinetics of intestinal cell response (mast cells, leukocytes, polymorphonuclear eosinophils)

Immunity

Trueman, K. F.; and Blight, G. W., 1978, *Austral. Vet. J.*, v. 54 (6), 301-305

Babesia bovis, susceptible cattle of different ages, innate immunity, aged cattle highly susceptible compared to other groups aged up to 2 years, animals of all ages had solid resistance to subsequent heterologous challenge

Immunity

Turk, J. L.; and Belehu, A., 1974, *Ciba Found. Symp.*, n.s. (25), 101-122

infectious diseases including leishmaniasis and Chagas' disease, evidence for immunological basis of spectra of clinical manifestations, review

Immunity

Turner, K. J.; Feddema, L.; and Quinn, E. H., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 58 (2), 232-236

Ascaris lumbricoides, *Necator americanus*, non-specific potentiation of IgE by parasitic infections in man

Immunity

Upadhyay, A. N.; and Ahluwalia, S. S., 1976, *Indian Vet. J.*, v. 53 (12), 972-973

mixed coccidial infection, pig, first infection did not confer any immunity, pig became resistant to challenge after second infection

Immunity

Urban, J. F., jr.; and Ishizaka, K., 1978, *J. Immunol.*, v. 121 (1), 199-203

Nippostrongylus brasiliensis-infected rats, effector mechanisms of IgE-B cell-generating factor

Immunity

Urban, J. F., jr.; Ishizaka, T.; and Ishizaka, K., 1978, *J. Immunol.*, v. 121 (1), 192-198

Nippostrongylus brasiliensis-infected rats, source of IgE-B cell-generating factor

Immunity

Vadas, M. A.; et al., 1979, *J. Immunol.*, v. 122 (4), 1228-1236

Schistosoma mansoni, new method for purification of human eosinophils and neutrophils, comparison of ability of these cells to damage schistosomula

Immunity

Vadas, M. A.; et al., 1979, *Proc. National Acad. Sci.*, v. 76 (4), 1982-1985

Schistosoma mansoni, major histocompatibility complex products restrict adherence of cytolytic T lymphocytes to minor histocompatibility antigens or to trinitrophenyl determinants on schistosomula

Immunity

Valdivieso, D.; and Tamsitt, J. R., 1970, *Rev. Biol. Trop.*, v. 17 (1), 1969, 1-25

immunology of nematode infections, review, extensive bibliography of early literature on immunity

Immunity

Van Meirvenne, N.; Janssens, P. G.; and Magnus, E., 1973, *Ann. Soc. Belge Med. Trop.*, v. 53 (1), 49-56

Trypanosoma brucei, blood incubation infectivity test, influence of several factors on process of lysis and neutralization of T. brucei in human serum

Immunity

Van Meirvenne, N.; Magnus, E.; and Janssens, P. G., 1976, *Ann. Soc. Belge Med. Trop.*, v. 56 (1), 55-63

Trypanosoma brucei rhodesiense, serum-incubation-infectivity-tests on clone populations of distinct antigenic types

Immunity

Van Tol, M. J. D.; Veenhoff, E.; and Seijen, H. G., 1978, *J. Immunol. Methods*, v. 21 (1-2), 125-131

isolation of rabbit IgM in high yield by convenient procedure using serum from *Trypanosoma equiperdum*-infected animals

Immunity

Vardhani, V.; and Johri, G. N., 1979, *J. Helminth.*, v. 53 (1), 35-39

Ancylostoma caninum, mice, single and multiple infections, intestinal mast cell populations, effect of dose and host sex

Immunity

Vinayak, V. K.; et al., 1979, *J. Parasitol.*, v. 65 (3), 407

Macaca mulatta naturally infected with ameba morphologically indistinguishable from *Entamoeba histolytica*, indirect hemagglutination titers to antigens from *Entamoeba histolytica* and from ameba of *Macaca mulatta*

Immunity

Wagner, E. D.; and Nembhard, P. A., 1976, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 25 (1), 1-4

Trypanosoma equiperdum, mice, protective and synergistic effects of concurrent infection with *Trichinella spiralis*

- Immunity
Wakelin, D., 1978, *Advances Parasitol.*, v. 16, 219-308
genetic control of susceptibility and resistance to parasitic infection, review
- Immunity
Wakelin, D., 1978, *Nature*, London (5664), v. 273, 617-620
immunity to intestinal parasites, review
- Immunity
Wakelin, D.; and Wilson, M. M., 1979, *Immunology*, v. 37 (1), 103-109
Trichinella spiralis, mice, transfer of immunity with enriched T- and B-cell populations
- Immunity
Wakelin, D.; and Wilson, M. M., 1979, *Exper. Parasitol.*, v. 48 (2), 305-312
Trichinella spiralis, immunity and inflammation in expulsion of transplanted adult worms from mice
- Immunity
Waller, T.; Morein, B.; and Fabiansson, E., 1978, *Lab. Animals*, v. 12 (3), 145-148
Encephalitozoon cuniculi, rabbits, humoral immune response following different routes of infection, india-ink immunoreaction test, indirect immunofluorescent antibody test, and immunodiffusion test, immunoglobulin classes involved, possible use of results in eradication program
- Immunity
Walls, R. S., 1976, *South African Med. J.*, v. 50 (34), 1313-1318
soluble antigen derived from body fluid of *Ascaris lumbricoides* injected into mice to examine specificity of eosinophilic response, specificity demonstrated in primed lymphoid cells, evidence suggests that these lymphocytes are T cells
- Immunity
Warren, K. S., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 25-38
Schistosoma mansoni, *Trichinella spiralis*, biology of natural infections within mammalian host, antigens produced by different parasite stages, host immunological responses to these antigens in vivo and in vitro, consequences to host in terms of both immunity and immunopathology, colloquium presentation
- Immunity
Warren, K. S.; Grove, D. I.; and Pelley, R. P., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (2, pt. 1), 271-275
Schistosoma japonicum egg granuloma, cellular composition, size, immunologic concomitants, differences from *S. mansoni*
- Immunity
Wassom, D. L.; David, C. S.; and Gleich, G. J., 1979, *Immunogenetics*, v. 9 (4-5), 491-496
Trichinella spiralis, genes within major histocompatibility complex influence susceptibility to infection in the mouse
- Immunity
Watanabe, N.; Kojima, S.; and Ovary, Z., 1976, *J. Exper. Med.*, v. 143 (4), 833-845
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, non-specific suppressor T cells, characteristic of low and transient IgE antibody response in SJL mice is inherited as recessive trait controlled by single Mendelian autosomal gene and is not linked to H-2 gene complex
- Immunity
Watanabe, N.; and Ovary, Z., 1977, *J. Exper. Med.*, v. 145 (6), 1501-1510
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, characterization of suppressor substance extracted from normal SJL spleen cells
- Immunity
Watanabe, N.; and Ovary, Z., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (6), 554-559
Nippostrongylus brasiliensis, AKR mice, enhancement of IgE antibody production was obtained by priming helper cells with parasite infection, X-ray irradiation eliminated suppressor cells
- Immunity
Watts, S. D. M.; Orpin, A.; and MacCormick, C., 1979, *Parasitology*, v. 78 (3), 287-294
Schistosoma mansoni, tegument pathology following chemotherapy with 153C51, lysosomal involvement (accumulation of inclusions with characteristics of residual lysosomes, changes in localization of acid phosphatase), immunological factors probably not involved
- Immunity
Weber, W. T., 1972, *Immun. Animal Parasites*, 33-55
immune response of fowl, function of bursa of Fabricius and thymus, review
- Immunity
Wedderburn, N.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (6), 610-614
Plasmodium yoelii infection in mice followed by either one or repeated infections with *P. berghei*, induction of chronic malaria, course of parasitemia, fluctuations in reticulocyte levels, antibody titres, immunoglobulin deposition in tissues, changes in spleen and liver
- Immunity
Weinbaum, F. I.; et al., 1978, *J. Immunol.*, v. 121 (2), 629-636
Plasmodium berghei yoelii (substrain 17X nonlethal) in BALB/c mice, kinetics of various specific and nonspecific cellular and humoral responses during course of infection
- Immunity
Weiner, D. J.; and Soulsby, E. J. L., 1978, *Exper. Parasitol.*, v. 45 (2), 241-246
Litomosoides carinii, effects of splenectomy on ability of naive *Mastomys natalensis* to accept transplanted adult nematodes, results show that spleen plays important role in rejection phenomenon

- Immunity**
Weiss, M. L., 1978, Israel J. Med. Sc., v. 14 (6), 682-686
Plasmodium berghei in splenectomized and/or spleen-transposed gerbils and rats, course of infection, histological findings in liver and spleen, specific arming of macrophages
- Immunity**
Weiss, N., 1978, Exper. Parasitol., v. 46 (2), 283-299
Dipetalonema viteae in 2 strains of hamster, lymphocyte blastogenesis (during different stages of primary infection, after injection of dead larvae, after implantation of adult worms, in mixed infection with Schistosoma mansoni), attempt to relate results with parasitological findings and with humoral immune response, analysis of cellular unresponsiveness to filarial antigens in chronically infected LAKZ hamsters
- Immunity**
Weiss, N.; and Tanner, M., 1979, Tropenmed. u. Parasitol., v. 30 (1), 73-80
Dipetalonema viteae in golden hamsters, antibody-dependent cell-mediated destruction of microfilariae demonstrated, no single effector cell type responsible for destruction
- Immunity**
Wellde, B. T.; et al., 1978, Exper. Parasitol., v. 45 (1), 26-33
Trypanosoma congolense, cattle (exper.), thrombocytopenia, effects of parasite concentration, curative berenil therapy, and immune status on thrombocyte levels; coagulation abnormalities
- Immunity**
Wellde, B. T.; and Diggs, C. L., 1978, Exper. Parasitol., v. 44 (2), 197-201
Plasmodium berghei, mice, antiserum treatment of infections resulted in population of parasites with altered antiserum susceptibility and virulence
- Immunity**
Welliver, R. C.; and Ogra, P. L., 1978, J. Am. Vet. Med. Ass., v. 173 (5, pt. 2), 560-564
importance of local immunity in enteric infection, colloquium presentation with brief mention of Eimeria tenella
- Immunity**
Wells, R. A.; et al., 1979, Clin. and Exper. Immunol., v. 35 (2), 202-209
Plasmodium falciparum- and P. vivax-infected Thai adults, loss of circulating T lymphocytes with normal levels of B and 'null' lymphocytes
- Immunity**
Wenk, P.; and Illgen, B., 1979, Naturwissenschaften, v. 66 (12), 626-628
Litomosoides carinii, neutralization of immunity against microfilariae, in vitro studies
- Immunity**
Werner, H., 1977, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe A, v. 238 (1), 122-127
Toxoplasma gondii, mice, incidence in peripheral blood following primary and secondary infections, infection immunity does not protect against reinfection
- Immunity**
Werner, H.; et al., 1977, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe A, v. 238 (1), 128-142
Toxoplasma gondii, placental transmission in immunised pregnant mice and rabbits, dependent on various factors (host species, state of immunity, Toxoplasma strain); roles of cellular immune defense discussed
- Immunity**
Wéry, M.; et al., 1976, Ann. Soc. Belge Med. Trop., v. 56 (2), 95-124
Onchocerca volvulus, humans, epidemiologic survey, parasitological, ophthalmological and immunological aspects: Lusambo, Kasai Oriental, Zaire
- Immunity**
Wikel, S. K., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 586-590
Dermacentor andersoni, C4-deficient guinea pigs with total deficiency in classical pathway of complement activation but with intact alternate pathway display tick resistance after one infestation
- Immunity**
Wilkins, H. A.; and Scott, A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 397-404
Schistosoma haematobium, children, 4-year study of egg counts, variations with age and with season, significant degree of stability of individual counts relative to those of group as whole, immunity as possible regulating factor: The Gambia
- Immunity**
Williams, D. M.; Grumet, F. C.; and Remington, J. S., 1978, Infect. and Immun., v. 19 (2), 416-420
Toxoplasma gondii, mice, genetic control of resistance, data demonstrate that murine susceptibility to T. gondii is under multi-genetic control with at least one of genes linked to H-2 locus and different mechanisms of action are suggested for some of infection susceptibility genes because of phenomenon of genetic complementarity
- Immunity**
Williams, J. F., 1979, J. Parasitol., v. 65 (3), 337-349
recent advances in immunology of cestode infections
- Immunity**
Wilson, A. J.; and Trueman, K. F., 1978, Austral. Vet. J., v. 54 (3), 121-124
Anaplasma marginale, Bos indicus cross steers (exper.), effects of reduced energy intake on humoral antibody response, parasitaemia, body weight, packed cell volumes, and plasma protein values
- Immunity**
Wilson, R. J. M., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 87-101
circulating antigens of parasites, source, nature, fate, and possible effects on immune response, colloquium presentation
- Immunity**
Wing, E. J.; Krahenbuhl, J. L.; and Remington, J. S., 1979, Immunology, v. 36 (3), 479-485
Trichinella spiralis-infected mice, peritoneal macrophage kinetics and function, 'activated' macrophages were able to inhibit and kill tumor cells but not to inhibit intracellular multiplication of Toxoplasma gondii

Immunity

- Wing, E. J.; and Remington, J. S., 1978, *Infect. and Immun.*, v. 21 (2), 398-404
Trichinella spiralis infections in mice with normal macrophages and in mice with macrophages activated by either chronic *Toxoplasma gondii* or acute *Listeria monocytogenes* infections, results suggest role for activated macrophages in resistance to *T. spiralis*

Immunity

- Wong, M. M.; and Suter, P. F., 1979, *Am. J. Vet. Research*, v. 40 (3), 414-420
Dirofilaria immitis, dogs (exper.) without microfilaremia, indirect fluorescent antibody titers, degree of eosinophilia, and radiologic findings before and after treatment, reinfection, necropsy findings, significance of tests, application to diagnosis

Immunity

- Wyburn-Mason, R., 1979, *Med. Hypotheses*, v. 5 (11), 1237-1249
Naegleria, possible cause of rheumatoid disease and many human cancers through chronic antigenic stimulation by the *Naegleria*, review of new medical concept

Immunity

- Wyller, D. J.; Herrod, H. G.; and Weinbaum, F. I., 1979, *Infect. and Immun.*, v. 24 (1), 106-110
Plasmodium falciparum, response of sensitized and unsensitized human lymphocyte subpopulations to malaria antigen

Immunity

- Wyller, D. J.; Oppenheim, J. J.; and Koontz, L. C., 1979, *Infect. and Immun.*, v. 24 (1), 151-159
Plasmodium berghei, *P. yoelii*, mice, effects of infection on ability of adherent mononuclear cells to elaborate soluble mediators that regulate lymphocyte activation in vitro

Immunity

- Yeh, H. Y.; and Shien, Y. S., 1979, *J. Chinese Soc. Vet. Sc.*, v. 5 (1), 33-37
Trypanosoma evansi, dogs (exper.), changes in peripheral blood T- and B-lymphocytes

Immunity

- Yeni, P.; et al., 1978, *Lancet*, London (8057), v. 1, 219-220 [Letter]
 human toxoplasmosis, high percentage of false positive results in immunofluorescence detection of IgM anti-*Toxoplasma* antibodies when serum used for test also contains rheumatoid factor

Immunity

- Yodoi, J.; and Ishizaka, K., 1979, *J. Immunol.*, v. 122 (6), 2577-2583
Nippostrongylus brasiliensis-infected rats, presence of T lymphocytes with Fc receptors specific for IgE

Immunity

- Yong, W. K.; and Heath, D. D., 1979, *Parasite Immunol.*, v. 1 (1), 27-38
Echinococcus granulosus-, *Taenia hydatigena*-, and *T. ovis*-infected sheep, immunoelectrophoretic (IEP) identification of 'arc 5' antibodies in sera; antigen similar to 'arc 5' antigen of *E. granulosus* cyst fluid demonstrated in *T. hydatigena* cyst fluid but not positively identified in *T. ovis* cyst fluid; evaluation of performance of IEP

Immunity

- Yoshimura, K.; et al., 1979, *Japan. J. Vet. Sc.*, v. 41 (3), 245-259
Angiostrongylus cantonensis in 8 strains of inbred rats, occurrence of acquired resistance, kinetics of humoral immune response (reaginic and indirect hemagglutination antibody response)

Immunity

- Yoshimura, K.; Aiba, H.; and Oya, H., 1979, *Internat. J. Parasitol.*, v. 9 (2), 97-103
Angiostrongylus cantonensis, simple procedure for transplantation of young adult worms into rat pulmonary vessels, acquired resistance conferred by infection with larvae compared with that following transplantation of adults, time course development of antibodies (reaginic, hemagglutinating, and precipitating)

Immunity

- Yoshino, T. P.; and Cheng, T. C., 1978, *J. Parasitol.*, v. 64 (4), 752-754
Schistosoma mansoni, newly hatched miracidia possess surface membrane-associated determinants that are antigenically similar to macromolecular component(s) of *Biomphalaria glabrata* hemolymph

Immunity

- Zemburowa, K.; Przybyłkiewicz, Z.; and Rocznik, M., 1978, *Arch. Immunol. et Therap. Exper.*, v. 26 (1-6), 653-657
Toxoplasma gondii, rabbits, humoral and cellular immune response in different stages of pregnancy, no evidence that this immune response has any protective effect on foetus

Immunity

- Zwisler, O., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 1-10
 parasitic infections, immunological reactions, immunological complexes, complement, IgE, cell-mediated immunity, antigenic behavior of parasites, review

Immunity, Agar gel diffusion. *See* Immunity, Precipitation.

Immunity, Agglutination

- de Alencar, R. A. (filho), 1978, *Arq. Inst. Biol.*, Sao Paulo, v. 45 (2), 101-115
 echinococcosis, cattle, swine, diagnosis by latex agglutination, immunodiffusion, and Casoni skin test compared

Immunity, Agglutination

- Amato Neto, V.; et al., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (5), 277-282
Toxoplasma gondii, humans, agglutination compared with indirect immunofluorescence, agglutination test not satisfactory

Immunity, Agglutination

- Amato Neto, V.; da Silva, L. J.; and Camargo, M. E., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (2), 99-102
 serodiagnostic tests for Chagas disease performed on sera of patients with visceral leishmaniasis gave positive results with several immunologic methods, indicates "group-reactions" within *Trypanosomatidae*

Immunity, Agglutination

- Ambroise-Thomas, P., 1978, Israel J. Med. Sc., v. 14 (6), 690-691
 malaria, diagnosis and seroepidemiologic study by immunofluorescence, indirect hemagglutination, and immunoenzymology, brief symposium presentation

Immunity, Agglutination

- Ambroise-Thomas, P.; Desgeorges, P. T.; and Monget, D., 1978, Bull. World Health Organ., v. 56 (5), 797-804
Toxoplasma gondii, *Entamoeba histolytica*, *Trichinella spiralis*, *Echinococcus granulosus*, human, diagnosis by enzyme-linked immunosorbent assay with a modified micro-method, parallel study by comparative serological tests

Immunity, Agglutination

- Ambroise-Thomas, P.; Simon, J.; and Bayard, M., 1978, Biomedicine Express, v. 29 (7), 245-248
T[oxoplasma] gondii, human, indirect hemagglutination test using whole antigen for serodiagnosis and for determining stage of disease, comparison with indirect immunofluorescence

Immunity, Agglutination

- Amerault, T. E.; Frerichs, W. M.; and Stiller, D., 1979, Am. J. Vet. Research, v. 40 (4), 529-531
Babesia caballi, horses, card test using newly developed antigen evaluated and compared with complement-fixation test

Immunity, Agglutination

- Andre, J.; and Filippi, R., 1978, Rev. Inst. Pasteur Lyon, v. 11 (1), 65-87
Toxoplasma gondii, antibody prevalence survey in pregnant women during diagnostic work-ups prior to delivery, immunofluorescence and Sabin-Feldman dye tests both of diagnostic value but direct agglutination test gave false positive reactions

Immunity, Agglutination

- Anthony, R. L.; Johnson, C. M.; and Sousa, O. E., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 969-973
Trypanosoma cruzi, *T. rangeli*, Panamanian villagers, diagnosis, micro-enzyme-linked immunosorbent assay, some serologic cross-reactivity between 2 species; comparison with complement fixation, direct agglutination, and clinical diagnosis

Immunity, Agglutination

- Antunes, L. J.; et al., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (3), 203-206
Leishmania braziliensis, humans, reverse immunodiffusion technique and passive hemagglutination test compared as serological tests

Immunity, Agglutination

- Apt, W.; and Sandoval, J., 1978, Rev. Med. Chile, v. 106 (4), 265-266
 human toxoplasmosis, comparative study of direct and indirect agglutination tests for diagnostic purposes, results suggest that the indirect agglutination test is easier to perform and is a good screening test for diagnosis: Chile

Immunity, Agglutination

- Araj, G. F.; Matossian, R. M.; and Frayha, G. J., 1977, Ztschr. Parasitenk., v. 52 (1), 23-30
Echinococcus granulosus, mice with secondary hydatidosis, time-related development of complement-fixing and hemagglutinating antibodies, correlation with cyst development

Immunity, Agglutination

- Araujo, F. G., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 433-439
Trypanosoma cruzi, acute infection in mice, circulating antigens capable of reacting against mouse serum in complement fixation and counterimmunoelectrophoresis tests but not in haemagglutination test

Immunity, Agglutination

- Bagchi, K.; Bazaz Malik, G.; and Sharma, M. I. D., 1978, Indian J. Med. Research, v. 68, 917-922
Plasmodium vivax, human, determination of antibody titres using indirect haemagglutination test, relationship to host age

Immunity, Agglutination

- Banerjee, D. P.; et al., 1978, Trop. Animal Health and Prod., v. 10 (2), 83-86
Anaplasma marginale, cattle, diagnosis, tube agglutination test, use of spleen antigen of infected calf

Immunity, Agglutination

- Barbosa, W.; et al., 1974, Rev. Patol. Trop., v. 3 (3), 263-268
Trypanosoma cruzi, diagnosis, sera from persons known to be infected, comparison of test results using counterimmunoelectrophoresis, hemagglutination, fluorescent antibody and complement fixation

Immunity, Agglutination

- Barbour, A. G.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 94-100
Echinococcus granulosus, humans, prevalence by age, sex, dog ownership, extent of sheep raising, and infected dog exposure, efficacy of intradermal, indirect hemagglutination, and bentonite flocculation tests for screening: Utah

Immunity, Agglutination

- Baruffa, G.; and Alcantara Filho, A., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (5), 329-332
Trypanosoma cruzi, human acute and chronic forms, comparison of diagnosis by latex agglutination and by immunofluorescence

Immunity, Agglutination

- Baruffa, G.; and Alcantara Filho, A., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (3), 121-127
Trypanosoma cruzi, humans, comparison of complement fixation and latex agglutination tests for immunodiagnosis of hospitalized patients and for epidemiologic surveys

Immunity, Agglutination

- Batista, S. M.; et al., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (6), 317-323
Trypanosoma cruzi, hemagglutination test, serum from persons with chronic infections, antigens purified by alcohol-ether, acetone-butanol and with known protein content compared with those obtained from culture forms lysed in distilled water

Immunity, Agglutination

Beach, P. G., 1979, J. Infect. Dis., v. 140 (5), 780-783

Toxoplasma gondii antibody prevalence in pregnant women, indirect haemagglutination test acceptable for mass screening, comparison with methylene blue dye test and indirect fluorescent antibody test: Oregon

Immunity, Agglutination

Benkova, M.; and Boroskova, Z., 1978, Vet. Med., Praha, v. 51, v. 23 (6), 355-360

Ascaris suum, swine, diagnosis of migratory phase, indirect hemagglutination reaction and latex-fixation test compared

Immunity, Agglutination

Bhopale, M. K.; and Kamath, V. R., 1979, J. Helminth., v. 53 (3), 252-254

Ancylostoma caninum, mice, single and repeated infections, haemagglutination test, evidence of presence of antibodies in serum and intestinal tissue

Immunity, Agglutination

Bokhout, B. A.; Boon, J. H.; and Hendriks, J., 1979, Vet. Quart., v. 1 (4), 195-203

Dictyocaulus viviparus, calves, indirect haemagglutination vs. clinical exam for diagnosis, results indicate IHA offers good possibilities

Immunity, Agglutination

Bombaci, L.; et al., 1976, Rev. Asoc. Bioquim. Argent. (224), v. 41, 28-35

Trypanosoma cruzi, evaluation of specificity and sensitivity of the direct agglutination test for diagnostic purposes in a non-endemic area, complement fixation and indirect hemagglutination tests used for comparison; when used with the addition of 2-mercaptoethanol in serum samples direct agglutination proved useful for screening in blood banks and for epidemiologic surveys

Immunity, Agglutination

Bone, G. J.; and Charlier, J., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 559-569

African trypanosomiasis, humans, capillary tube indirect hemagglutination test, useful diagnostic tool for field surveys

Immunity, Agglutination

Boroskova, Z.; and Benkova, M., 1978, Vet. Med., Praha, v. 51, v. 23 (5), 283-287

Ascaris suum, pigs, indirect haemagglutination test to diagnose migratory phase, antigens from invasive larval stage have higher serological activity than those from sexually mature stages

Immunity, Agglutination

Brindle, Y.; Letarte, R.; and Gagnon, J., 1979, Canad. J. Microbiol., v. 25 (6), 788-789

Fasciola hepatica, hemagglutination titers in Alces americana: Province of Quebec, Canada

Immunity, Agglutination

Calderon, C., 1977, Rev. Med. Chile, v. 105 (7), 460-463

Echinococcus granulosus, humans, comparison of immunoelectrophoresis, latex agglutination and indirect hemagglutination for diagnostic purposes

Immunity, Agglutination

Camargo, M. E., 1975, AMB, Rev. Ass. Med. Brasil., v. 21 (11), 341-344

Toxoplasma gondii, pregnant women, sero-diagnosis, review

Immunity, Agglutination

Camargo, M. E.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (1), 45-50

Trypanosoma cruzi, human, hemagglutination test with chromium chloride, formalin-treated human erythrocytes evaluated for diagnostic purposes

Immunity, Agglutination

Camargo, M. E.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 254-260

Trypanosoma cruzi, human, comparative serologic diagnosis, complement fixation, immunofluorescence, hemagglutination, flocculation tests

Immunity, Agglutination

Camargo, M. E.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (3), 152-160

Toxoplasma gondii, human congenital, significance of different diagnostic tests in screening for inapparent infections, serologic tests and serologic patterns in mothers and children studied

Immunity, Agglutination

Camargo, M. E.; Batista, S. M.; and Hoshino-Shimizu, S., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (6), 350-354

Trypanosoma cruzi, humans, freeze-dried reagent used with hemagglutination test evaluated, compared with complement fixation, preserved reagent found to be sensitive, specific and reliable

Immunity, Agglutination

Camargo, M. E.; Hoshino, S.; and Siqueira, G. R. V., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (2), 81-85

Trypanosoma cruzi, aldehyde-preserved human erythrocytes used with the hemagglutination test, practical diagnostic test for routine purposes

Immunity, Agglutination

Camargo, M. E.; Hoshino-Shimizu, S.; and Umezawa, E. S., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (4), 230-235

Trypanosoma cruzi, I.M.T.-Chagas flocculation test evaluated, compared with complement fixation, hemagglutination and immunofluorescence test results

Immunity, Agglutination

Camargo, M. E.; and Leser, P. G., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 227-238

toxoplasmosis, humans with recently acquired infections, transitional serological patterns and evolution of antibodies studied comparing hemagglutination, complement fixation and immunofluorescence tests

Immunity, Agglutination

Camargo, M. E.; Leser, P. G.; and Leser, W. S. P., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 215-226

Toxoplasma gondii, comparative study of hemagglutination, complement fixation, IgG- and IgM-immunofluorescence tests on human serum samples

Immunity, Agglutination

Camargo, M. E.; Leser, P. G.; and Rocca, A., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (1), 41-44

toxoplasmosis, humans, diagnosis, early and late peaks in hemagglutination titers separated by paradoxically low values

Immunity, Agglutination

- Carney, W. P.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 471-479
Entamoeba histolytica, *Toxoplasma gondii*, humans, serological survey using indirect hemagglutination test, prevalence of antibody titers by host age, sex, and village (altitude): Malili area, South Sulawesi, Indonesia

Immunity, Agglutination

- Ceneviva, A. C.; and Camargo, M. E., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 622-626
Plasmodium gallinaceum-parasitized chicken erythrocytes used in a practical hemagglutination test for IgM antibodies in human malarial, useful complementary tool for sero-epidemiologic studies

Immunity, Agglutination

- Cerisola, J. A.; Alvarez, M.; and De Rissio, A. M., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (6), 403-411
Trypanosoma cruzi, human, acute disease, 2-year longitudinal study, comparison of results of complement fixation, hemagglutination and fluorescent antibody tests, with and without Bay 2502 treatment

Immunity, Agglutination

- Chen, S. N.; et al., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (6), 324-327
Toxoplasma gondii, prevalence in cord blood specimens surveyed using indirect hemagglutination test, antibodies confirmed in sera by the indirect fluorescent antibody test: Taiwan

Immunity, Agglutination

- Chen, S. N.; and Suzuki, T., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (7), 393-400
Angiostrongylus cantonensis, rats and rabbits (both exper.), fluorescent antibody vs. indirect hemagglutination test for diagnosis

Immunity, Agglutination

- Chen, S. N.; Suzuki, T.; and Liu, K. H., 1973, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 72 (3), 161-166
Angiostrongylus cantonensis, detection of antigen and antibody in serum and cerebrospinal fluid of exper. infected *Macaca cyclops*, possible use in detecting human infection

Immunity, Agglutination

- Cimerman, B.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 113-116
Toxoplasma gondii, human, diagnosis, evaluation of direct agglutination test, less useful than the indirect fluorescent antibody test

Immunity, Agglutination

- Coltorti, E. A.; and Varela-Diaz, V. M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 226-229
Echinococcus granulosus, humans, double diffusion test for detection of antibodies against arc 5 antigens, comparison with immuno-electrophoresis and latex agglutination

Immunity, Agglutination

- Contreras, M. del C.; et al., 1978, Bol. Chileno Parasitol., v. 33 (3-4), 53-56
 human hydatidosis, diagnosis, indirect hemagglutination test

Immunity, Agglutination

- Cruz, A. M. R.; et al., 1978, Rev. Portug. Farm., v. 18 (2), 123-126
Toxoplasma gondii, human, diagnosis, direct agglutination

Immunity, Agglutination

- da Cunha, A. S.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 387-392
Entamoeba histolytica, infected patients from 3 geographic areas, results of latex agglutination and agar gel diffusion tests in patients with symptoms vs. those without symptoms: Brazil

Immunity, Agglutination

- Deelder, A. M.; and Eveleigh, P. C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 178-180
Schistosoma mansoni-infected hamsters, indirect haemagglutination reaction detected circulating anodic antigen in sera and in immune complexes isolated from these sera, but never in sera from human infections

Immunity, Agglutination

- DeFord, J. W., 1973, South. Med. J., v. 66 (10), 1149-1153
 amebiasis, new methods of diagnosis and treatment with emphasis on the indirect hemagglutination test and metronidazole

Immunity, Agglutination

- Dharmkrong-at, A.; Uahkowitzchai, V.; and Sirisinha, S., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 330-337
Angiostrongylus cantonensis, rats (exper.) humoral and cell-mediated immune responses to somatic and metabolic antigens analyzed using hemagglutination, macrophage migration inhibition, and cutaneous hypersensitivity tests

Immunity, Agglutination

- Dias, L. C. de S.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (1), 37-44
Schistosoma mansoni, human, immunofluorescence and hemagglutination techniques used in serologic surveys, results compared with fecal egg counts, possible application of serologic tests to epidemiological surveys

Immunity, Agglutination

- Dighero, M. W.; and Bradstreet, C. M. P., 1979, J. Helminth., v. 53 (4), 283-286
 human hydatid disease, serodiagnosis, latex-agglutination and complement fixation tests

Immunity, Agglutination

- Di Nardo, V.; De Rosa, F.; and Toraldo, P., 1977, Riv. Parassitol., Roma, v. 38 (1), 103-107
 echinococcosis, incidence of recurrence 1-20 years after surgical removal, detection of subclinical parasitosis using indirect haemagglutination

Immunity, Agglutination

- Doby, J. M.; Hocquet, P.; and Kombila-Favry, M., 1978, Rev. Franc. Gynec. et Obst., v. 73 (6), 453-456
 toxoplasmosis, immunoserologic diagnosis in pregnant women, responsibilities of physicians and diagnostic laboratories in providing accurate diagnostic information

Immunity, Agglutination

- Dwivedi, S. K.; and Gautam, O. P., 1978, Indian J. Animal Sc., v. 48 (2), 148-149
Babesia bigemina, calves (exper.), indirect hemagglutination test, antibodies detected 14 days after infection, single and multiple exposures compared

Immunity, Agglutination

- Dwivedi, S. K.; and Gautam, O. P., 1979, Indian J. Animal Sc., v. 49 (5), 395-396
Babesia bigemina, calves (exper.), diagnosis, capillary tube agglutination test

Immunity, Agglutination

- Dymowska, Z.; Zakrzewska, A.; and Aleksandrowicz, J., 1970, Acta Parasitol. Polon., v. 18 (13-26), 221-230
Trichinella spiralis, evaluation of antigens obtained by different methods of preparation (ring precipitation test, immunoelectrophoresis, latex test)

Immunity, Agglutination

- El-Sawy, M.; et al., 1979, NATO Advanced Study Inst. Ser., s. A, Life Sc., v. 24, 277-279
 schistosomiasis in patients with and without neurological symptoms, circumoval precipitin test, indirect haemagglutination test, and immunoglobulins in serum and cerebrospinal fluid

Immunity, Agglutination

- Felgner, P., 1977, Tropenmed. u. Parasitol., v. 28 (4), 491-493
 amebic abscess, human, serodiagnosis, comparison of results using Stick-ELISA (enzyme-linked immunosorbent assay) and those obtained by complement fixation, indirect hemagglutination, counterelectrophoresis, and latex agglutination

Immunity, Agglutination

- Felgner, P., 1978, Tropenmed. u. Parasitol., v. 29 (4), 417-422
 alveolar and cystic echinococcosis, human, antibody activity in stick-ELISA compared to activity of complement fixation and indirect hemagglutination, no test allowed species specific diagnosis of cystic disease but most alveolar infections could be recognized using homologous antibody and ELISA or complement fixation

Immunity, Agglutination

- Ferreira, A. W.; Camargo, M. E.; and Nakahara, O. S., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (6), 341-345
Schistosoma mansoni, immuno-peroxidase-antiglobulin diagnostic test compared with standard immunofluorescence and hemagglutination tests

Immunity, Agglutination

- Fesefeldt, C.; and Braveny, I., 1978, Immun. u. Infekt., v. 6 (4), 160-165
 Toxoplasma, human, diagnosis, micromethod with stable reagents for indirect hemagglutination test (IHAT), comparison with Sabin-Feldman dye test, complement fixation test, and 2 commercial IHAT kits

Immunity, Agglutination

- Fiorillo, A. M.; da Costa, J. C.; and Passos, J., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (6), 371-376
Schistosoma mansoni, human chronic infections, identification of hemagglutinating antibodies using indirect hemagglutination test with tannic acid-treated red blood cells sensitized with worm extract, antibodies identified as type 7S, probably IgG

Immunity, Agglutination

- Franca-Rodriguez, M. E.; et al., 1976, Rev. Uruguaya Patol. Clin. y Microbiol., v. 14 (1), 28-34
 Chagas disease, humans, evaluation of the latex agglutination test for diagnosis, comparison with other frequently used sero-immunologic techniques

Immunity, Agglutination

- Gladysz-Pawlak, K., 1977, Acta Parasitol. Polon., v. 24 (28-34), 345-355
F[asciola] hepatica, cattle, diagnosis with latex reaction, recommended as particularly useful for mass field examinations

Immunity, Agglutination

- Glickman, L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 492-498
Toxocara canis, human visceral larva migrans, serodiagnosis, enzyme-linked immunosorbent assay appears to be method of choice as compared to indirect hemagglutination, bentonite flocculation, and double diffusion in agar

Immunity, Agglutination

- Gold, D.; et al., 1978, J. Parasitol., v. 64 (5), 866-873
Entamoeba histolytica, serologic and cell-mediated immune responses of *Mesocricetus auratus* exposed to 2 parasite strains, indirect hemagglutination test, lymphocyte transformation, migration inhibition of macrophages, some evidence of immunosuppression

Immunity, Agglutination

- Gonzalez, E. F.; Long, R. F.; and Todorovic, R. A., 1978, Am. J. Vet. Research, v. 39 (9), 1538-1541
Anaplasma marginale, cattle, diagnosis, comparisons of complement-fixation, indirect fluorescent antibody, and card agglutination tests

Immunity, Agglutination

- de Gonzalez, G. R.; and Andres, A. S., 1977, Acta Bioquim. Clin. Latinoam., v. 11 (4), 353-356
Trypanosoma cruzi, diagnosis of Chagas disease in blood bank donors, direct agglutination and direct agglutination with 2-mercaptoethanol, comparison with complement fixation, immunofluorescence, and latex agglutination

Immunity, Agglutination

- Gradkovskaia, N. V.; Gracheva, L. I.; and Shemanova, G. F., 1978, Zhurnal Mikrobiol., Epidemiol. i Immunol. (8), 106-109
 toxoplasmosis, human, diagnosis, passive hemagglutination test, antigen preparation, comparison with immunofluorescence and complement fixation tests

Immunity, Agglutination

Grieve, R. B.; Gebhardt, B. M.; and Bradley, R. E., sr., 1979, *Internat. J. Parasitol.*, v. 9 (4), 275-279
Dirofilaria immitis, dogs (exper.), cell-mediated (lymphocyte transformation assay) and humoral (indirect hemagglutination assay) immune responses, diminished mitogen responsiveness

Immunity, Agglutination

Grove, D. I.; and Davis, R. S., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 508-513
Wuchereria bancrofti, *Brugia malayi*, human, serodiagnosis, indirect immunofluorescence and agglutination using *B. malayi* as antigen, measurement of antibodies to adult worms is useful indicator of infection while microfilarial antibodies are correlated with disease: Philippines

Immunity, Agglutination

Guimaraes, M. C. S.; Ribeiro, M. T.; and Camargo, M. E., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (3), 182-190
Trypanosoma cruzi, glycoprotein complex extracted from epimastigotes capable of inhibiting immunofluorescence and hemagglutination tests performed with human sera and forming complement fixing immune complexes with both human and hyperimmune sera

Immunity, Agglutination

Guirges, S. Y.; Sant, M. V.; and Nimbkar, Y. S., 1978, *J. Hyg., Epidemiol., Microbiol. and Immunol.*, v. 22 (2), 208-218
Entamoeba histolytica, human, diagnosis by indirect haemagglutination test

Immunity, Agglutination

Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (1-8), 9-47
Fasciola hepatica, structure of 41 antigens, serologic activity in rabbits using 5 tests

Immunity, Agglutination

Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (19-28), 285-306
Fasciola hepatica, rabbits, serological response, dynamics in relation to intensity and duration of infection and to superinfection (complement fixation, passive hemagglutination, gel precipitation, and immunoelectrophoresis with various antigens)

Immunity, Agglutination

Hassan, F.; et al., 1979, *J. Trop. Med. and Hyg.*, v. 82 (1), 3-7
schistosomiasis, humans, enzyme linked immunosorbent assay (ELISA), immunodiagnosis, compared with indirect fluorescent antibody and indirect hemagglutination tests

Immunity, Agglutination

Henry, S. C., 1979, *J. Am. Vet. Med. Ass.*, v. 174 (6), 601-603
Eperythrozoon suis, swine, clinical signs of infection confirmed by indirect hemagglutination and measuring packed cell volume; oxytetracycline and arsanilic acid combined with lice control, arsenic toxicosis

Immunity, Agglutination

Hess, U.; Eckert, J.; and Frohlich, A., 1974, *Schweiz. Med. Wchnschr.*, v. 104 (24), 853-859
cystic and alveolar echinococcosis, human, sensitivities of complement-fixation, passive hemagglutination (PH), and indirect fluorescent-antibody (IF) tests compared, simultaneous use of the PH and IF tests recommended

Immunity, Agglutination

Hoghooghi, N.; et al., 1977, *Trop. and Geogr. Med.*, v. 29 (4), 393-398
Echinococcus granulosus, humans, evaluation of indirect haemagglutination and immediate intradermal tests, diagnosis

Immunity, Agglutination

Hoshino, S.; Camargo, M. E.; and Correa, N. S., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (3), 192-194
Schistosoma mansoni, humans, diagnosis, hemagglutination test using chromium chloride to bind antigens to formalin-treated erythrocytes, results were similar to those obtained with a hemagglutination test using tannic acid-treated erythrocytes

Immunity, Agglutination

Hoshino, S.; Camargo, M. E.; and da Silva, L. C., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (2), 136-143
Schistosoma mansoni, human, hemagglutination test (formalin-treated erythrocyte-coated adult worm extract) and immunofluorescence (adult worm particles fixed on microscope slides), comparison

Immunity, Agglutination

Hoshino-Shimizu, S.; Camargo, M. E.; and Nagasse, T. K., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (4), 208-212
Trypanosoma cruzi, acute or recent human infections, diagnosis, standardization of polysaccharide-hemagglutination test, possible seroepidemiologic applications

Immunity, Agglutination

Ikeda, T.; Tada, I.; and Aoki, Y., 1978, *J. Parasitol.*, v. 64 (5), 786-789
onchocerciasis, human, diagnosis, indirect hemagglutination test performed with crude saline extract of *Onchocerca volvulus* as antigen, high sensitivity and specificity, IHA titers of blood samples from ear lobe collected on filter paper and of sera obtained by venipuncture showed high correlation

Immunity, Agglutination

Kamiya, M.; et al., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (2), 67-74
Litomosoides carinii, cotton rats, Ouchterlony and immunoelectrophoresis (IEP) tests with homologous and heterologous (*Dirofilaria immitis*, *Angiostrongylus cantonensis*) antigens at 11 weeks after infection; sequential changes from 1-10 weeks after infection in hemagglutination titers and IEP with homologous antigen and in numbers of microfilariae

Immunity, Agglutination

Kanamura, H. Y.; Hoshino-Shimizu, S.; and da Silva, L. C., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (2), 76-81
S[chistosoma] mansoni, human, pattern of class-specific fluorescent antibodies according to infection stages, hemagglutination test comparisons

Immunity, Agglutination

Kertesz, V.; Roberts, P. W.; and Sharp, P., 1979, *Med. J. Australia*, v. 2 (13), 678-680
 hydatid disease, humans, diagnosis, evaluation of sensitivity and specificity of 3 commonly used serological tests: complement fixation, haemagglutination, and fluorescent antibody techniques

Immunity, Agglutination

Kobayashi, A.; et al., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (3), 175-180
 Toxoplasma, diagnosis, commercial latex agglutination test, comparison with dye and indirect hemagglutination tests

Immunity, Agglutination

Krogstad, D. J.; et al., 1978, *Ann. Int. Med.*, v. 88 (1), 89-97
 Entamoeba histolytica, epidemiologic investigations of suspected foci of human amoebiasis occurring in the United States from 1971-1974, findings suggest diagnostic problems and misdiagnosis, suggests that stool examinations be supplemented with serology and microscopic diagnosis

Immunity, Agglutination

Kuberski, T., 1978, *Sex. Transm. Dis.*, v. 5 (3), 97-102
 Trichomonas vaginalis, evaluation of the indirect hemagglutination technique, appears potentially useful for diagnosis of infection in men and in sero-epidemiologic studies

Immunity, Agglutination

Kumar, P. S.; Kumar, R.; and Mohapatra, L. N., 1978, *Indian J. Med. Research*, v. 67, 908-917
 Toxoplasma gondii, rabbits treated with 2-sulfamonyl-4,4'-diamino diphenylsulphone, determination of minimum curative dose, haemagglutinating antibody response in primary and challenge infection, immunity to challenge infection, schedule for raising high titre serum

Immunity, Agglutination

Kwa, B. H.; and Liew, F. Y., 1978, *J. Helminth.*, v. 52 (2), 99-107
 Taenia taeniaeformis, rats, haemagglutinating antibody production, passive transfer of immunity using sera from different time intervals after infection, passive transfer using dilutions of hyperimmune serum, time course of protection conferred by passive serum transfer before and after challenge

Immunity, Agglutination

Lee, S. Y.; et al., 1975, *Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.)*, v. 74 (2), 82-85
 Toxoplasma gondii, detection of cysts in swine lymph nodes, trypsin digestion, frozen section and imprint smear methods compared with indirect hemagglutination

Immunity, Agglutination

Leguia, G.; and Herbert, I. V., 1979, *Research Vet. Sc.*, v. 27 (3), 390-391
 Sarcocystis in dogs, foxes, sheep, and cattle, Toxoplasma gondii in sheep, prevalence, indirect haemagglutination reaction for serodiagnosis: New South Wales

Immunity, Agglutination

Le Lorier, B.; et al., 1978, *Rev. de Med. Limoges*, v. 9 (3), 143-148
 human toxoplasmosis, comparative discussion on value of Sabin-Feldman dye test, immunofluorescence and agglutination for diagnosis

Immunity, Agglutination

Leser, P. G.; Camargo, M. E.; and Baruzzi, R., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (4), 232-236
 toxoplasmosis, Brazilian Indians (Kren-Akore) who have had only recent contact with civilized man, serological survey using immunofluorescence and hemagglutination, high degree of positive tests: Xingu National Park

Immunity, Agglutination

Lima Samayoa, O.; Maselli, R.; and Aguilar, F. J., 1973, *Rev. Colegio Med. Guatemala*, v. 24 (2), 120-128
 Entamoeba histolytica, humans, diagnosis, comparison of results using passive latex agglutination and agar gel precipitation

Immunity, Agglutination

Long, G. W.; and Dusanic, D. G., 1978, *Exper. Parasitol.*, v. 44 (1), 56-65
 Trypanosoma lewisi, serological reactivities of exoantigens and cellular antigens of bloodstream parasites from immunosuppressed rats (precipitation and agglutination tests), results suggest that likely result of immunosuppressing host is trypanosome antigen preparation that is more reactive serodiagnostic reagent

Immunity, Agglutination

Lopes, E. R.; et al., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (2), 57-59
 Chagas disease, results of complement fixation and hemagglutination tests compared using pericardial fluid from autopsy cases with chronic cardiomyopathy

Immunity, Agglutination

Lopes, E. R.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 244-246
 Trypanosoma cruzi, human, post-mortem diagnosis of chronic Chagas disease, evaluation of 3 serological tests on pericardial fluid (haemagglutination, fluorescent antibody, and complement fixation)

Immunity, Agglutination

Lopez V., G.; and Todorovic, R. A., 1978, *Vet. Parasitol.*, v. 4 (1), 1-9
 Babesia argentina, cattle (nat. and exper.), diagnosis by rapid latex agglutination test applicable in field, specificity relative to infections with Babesia bigemina and Anaplasma marginale, comparison of results with complement fixation and indirect fluorescent antibody tests

Immunity, Agglutination

Luzzio, A. J.; McRoberts, M. J.; and Euliss, N. H., 1979, *J. Infect. Dis.*, v. 140 (3), 370-377
 Leishmania spp., immunized rabbits, infected hamsters (exper.), and humans, quantitative estimation of antibody titers by enzyme-linked immunosorbent assay, some comparisons with passive hemagglutination, complement fixation, and countercurrent immunoelectrophoresis

Immunity, Agglutination

McArthur, C. P., 1978, J. Fish Dis., v. 1 (4), 377-387

Telogaster opisthorchis, precipitating antibody in *Anguilla australis schmidtii* serum and *A. dieffenbachii* gut mucus, agar-gel diffusion, passive haemagglutination, estimated molecular weight and 2-mercaptoethanol sensitivity of antibodies

Immunity, Agglutination

Magat, W. J.; and Jeska, E. L., 1976, Acta Parasitol. Polon., v. 24 (11-19), 191-198

Trichinella spiralis, partially purified antigenic fraction from muscle larvae which detects hemagglutinin and precipitin antibodies in infection sera of rats, rabbits, and swine up to one year after single infection

Immunity, Agglutination

Magonigle, R. A.; and Eckblad, W. P., 1979, Cornell Vet., v. 69 (4), 402-410

Anaplasma marginale in non-splenectomized *Cervus canadensis canadensis* (exper.), hematologic, serologic, and clinical studies, diagnosis of carrier state by plasma and serum rapid card agglutination tests

Immunity, Agglutination

Mahajan, R. C.; et al., 1976, Indian J. Path. and Microbiol., v. 19 (2), 123-126

amoebiasis, human, diagnosis, evaluation of Serameba, counter-immunoelectrophoresis, and bentonite flocculation tests

Immunity, Agglutination

Mahajan, R. C.; and Joshi, R. M., 1979, Indian J. Med. Research, v. 69, 247-250

Toxoplasma gondii, human, comparative evaluation of slide haemagglutination and tube haemagglutination test for serodiagnosis

Immunity, Agglutination

Mannweiler, E.; et al., 1978, Deutsche Med. Wchnschr., v. 103 (40), 1562-1565

Trichinella spiralis, serum antibody findings in humans who had eaten wild boar meat, complement fixation, indirect haemagglutination, and ELISA tests

Immunity, Agglutination

Mannweiler, E.; Felgner, P.; and Lederer, I., 1979, Deutsche Med. Wchnschr., v. 104 (32), 1139-1142

E[chinococcus] cysticus, *E[chinococcus] alveolaris*, humans, serum antibodies, complement fixation, indirect haemagglutination, and indirect enzyme immune (ELISA) techniques

Immunity, Agglutination

Mannweiler, E.; and Lederer, I., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (3), 403-408

E[ntamoeba] histolytica, humans, diagnostic value of counter-immunoelectrophoresis in comparison to complement fixation, indirect haemagglutination, and latex agglutination tests

Immunity, Agglutination

Mannweiler, E.; Lederer, I.; and zum Felde, I., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (3), 397-402

L[eishmania] donovani-infected humans, increased IgG levels, *L. donovani*, *L. brasiliensis*, and *L. tropica* antigens used in comparison of immunological diagnostic methods studying antibody titers, indirect haemagglutination test unsuitable for diagnosis

Immunity, Agglutination

Matossian, R. M.; et al., 1979, J. Helminth., v. 53 (4), 287-291

human hydatid disease, serodiagnosis, indirect haemagglutination, enzyme-linked immunosorbent assay, fluorescence using defined antigen substrate spheres

Immunity, Agglutination

Mayrink, W.; et al., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (4), 273-276

Leishmania donovani, human, latex agglutination test specific diagnosis for kala-azar

Immunity, Agglutination

Menzel, S.; and Bienzle, U., 1978, Tropenmed. u. Parasitol., v. 29 (2), 194-197

Leishmania tropica, humans with recent primary exposure, fluorescent antibody test detected antibodies to *L. donovani* in 19 of 41 individuals, complement fixation and indirect hemagglutination tests were not useful for diagnosis

Immunity, Agglutination

Meuwissen, J. H. E. T., 1978, Israel J. Med. Sc., v. 14 (6), 692-696

malaria, 4 yearly surveys in Surinam with indirect haemagglutination test, general comments on seroepidemiologic surveys and mathematical models for assessment of malaria transmission rates, symposium presentation

Immunity, Agglutination

Michael, S. A.; and El Refaai, A. H., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 229-231

Anaplasma marginale, buffaloes, use of both capillary tube agglutination test and blood-film examination recommended for survey and diagnostic purposes: Egypt

Immunity, Agglutination

Minami, T., 1977, Japan Agric. Research Quart., v. 11 (4), 234-238

Japanese *Babesia* sp., cattle (exper.), capillary-tube agglutination test, discrimination from *B. bigemina* and *B. argentina* was almost possible, no cross reactions with other protozoa

Immunity, Agglutination

Minami, T.; et al., 1979, Vet. Parasitol., v. 5 (1), 29-38

Babesia bigemina and Japanese *Babesia* species can be serologically differentiated by the complement fixation and capillary-tube agglutination tests

Immunity, Agglutination

Mohapatra, T. M.; et al., 1978, Indian J. Med. Research, v. 67, 754-758

E[ntamoeba] histolytica, human, evaluation of agar-gel diffusion test for sero-diagnosis of invasive amoebiasis, comparison with results using indirect hemagglutination test, agar-gel test recommended for routine use when more sophisticated methods are not readily available

Immunity, Agglutination

Mohapatra, T. M.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (1), 53-58

Entamoeba histolytica, humans with symptomatic and asymptomatic amoebiasis, comparative evaluation of parasitological and serological diagnostic techniques

Immunity, Agglutination

Morris, M. N.; Powell, S. J.; and Elsdon-Dew, R., 1970, South African Med. J., v. 44 (20), 594-595

Entamoeba histolytica, humans, diagnosis of invasive infection using a simple and rapid latex-agglutination test

Immunity, Agglutination

Morris, M. N.; Powell, S. J.; and Elsdon-Dew, R., 1971, v. 45 (42), 1206-1208

Entamoeba histolytica, human invasive amoebiasis, diagnosis, latex agglutination test, not useful as index of severity of disease but useful as evidence of presence of infection

Immunity, Agglutination

Muchnik, G.; et al., 1978, Rev. Hosp. Niños, Buenos Aires (78), v. 20, 4-10

toxoplasmosis, children, survey for presence of antibodies using the direct agglutination and indirect immunofluorescence tests, gradual increase in infection rate with age (60% by age 14)

Immunity, Agglutination

Mwaiko, G. L.; and Mkufya, A., 1977, East African Med. J., v. 54 (12), 680-683

Onchocerca volvulus, humans, detection of antibodies using adult *O. gutturosa* antigen; comparison of indirect haemagglutination, agar gel diffusion, and counter-current immunoelectrophoresis methods; cross reactions with sera of persons infected with *Wuchereria bancrofti*

Immunity, Agglutination

Neal, R. A.; and Miles, R. A., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (5), 325-332

Trypanosoma cruzi, indirect hemagglutination test, adapted for use with capillary blood dried on filter paper, useful for epidemiologic field surveys

Immunity, Agglutination

Nishino, C., 1977, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 46 (2), 73-88

Anisakis, humans, epidemiologic survey, comparison of skin test, indirect hemagglutination, and serum IgE levels in randomly selected local inhabitants and in patients with anisakiasis, higher positive rates in workers in fishing industries than in those in farming industries: Hokkaido

Immunity, Agglutination

Norden, C. W.; et al., 1978, Ann. Int. Med., v. 89 (1), 144-145 [Letter]

human echinococcal infection, importance of diagnosis by immunoelectrophoresis if there is possibility that serologic studies (indirect hemagglutination, bentonite flocculation) give positive results that do not correlate with clinical history

Immunity, Agglutination

Norman, L.; Gold, D.; and Kagan, I. G., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 198-205

Entamoeba histolytica, exper. infected *Mesocricetus auratus*, measurement of serologic responses using indirect hemagglutination and enzyme linked immunosorbent assay tests

Immunity, Agglutination

Oelerich, S., 1977, Tropenmed. u. Parasitol., v. 28 (4), 539-544

Paragonimus uterobilateralis, *P. africanus*, *Macaca mulatta* (exper.), serological changes (indirect hemagglutination, complement fixation, double gel diffusion), cross-reactions occurred but species could be differentiated by disc-electrophoresis; supplemented by parasitologic and radiologic observations of other authors

Immunity, Agglutination

Pagniez, G.; et al., 1976, Rev. Assoc. Bioquim. Argent. (224), v. 41, 38-42

Chagas disease, efficacy of the direct agglutination test for diagnosis (with and without the addition of 2-mercaptoethanol), complement fixation test used as reference; concluded that test useful mainly in areas such as blood banks

Immunity, Agglutination

Panigrahi, H.; et al., 1978, Indian J. Med. Research, v. 67, 918-923

Toxoplasma gondii, comparison of indirect hemagglutination test and fluorescent antibody test in detection of antibodies in human sera

Immunity, Agglutination

Perea, E. J.; and Barrios, S., 1975, Rev. Clin. Espan., v. 137 (6), 513-516

human toxoplasmosis, serologic diagnosis by microagglutination more sensitive than indirect immunofluorescence in comparative evaluations

Immunity, Agglutination

Pinon, J. M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 318-324

hydatidosis, human, evaluation of immunoelectrodiffusion test (IED) vs. immunoelectrophoresis and indirect hemagglutination, sensitivity of IED increased and classes of immunoglobulins defined by combining enzymatic labelling with IED resulting in ELIEDA (enzyme-linked immunoelectrodiffusion assay)

Immunity, Agglutination

Pozzuoli, R.; et al., 1976, Recent Prog. Med., v. 60 (6), 625-638

Echinococcus granulosus, humans, comparative evaluation of immunoserological diagnostic methods, review

Immunity, Agglutination

- Przyjałkowski, Z.; Zapart, W.; and Starzynski, S., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (12), 875-880
Toxocara canis, mice, intravital diagnosis of early larva migrans, serological and haematological tests, histopathological changes in tissues, numbers of larvae detected in various internal organs

Immunity, Agglutination

- Richard-Lenoble, D.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 553-560
 hydatidosis, human, serodiagnosis (radio-immunoassay, indirect haemagglutination, immuno-electrodiffusion), subclasses of specific anti-hydatid immunoglobulin, detection of circulating immune complexes

Immunity, Agglutination

- Rodriguez, O. N.; et al., 1975, Folia Vet., v. 19 (1-2), 249-255
Anaplasma marginale, *Paranaplasma caudata*, antigenic differences determined by passive hemagglutination and hemagglutination inhibition test

Immunity, Agglutination

- Rodriguez, O. N.; et al., 1978, Rev. Cubana Cien. Vet., v. 9 (1), 87-94
Anaplasma marginale, *Babesia argentina*, *B. bigemina*, cattle of different breeds, serodiagnosis, complement fixation and capillary agglutination microtechniques: Cuba

Immunity, Agglutination

- Rubiolo, E. R.; and Vottero Cima, E., 1979, Acta Bioquim. Clin. Latinoam., v. 13 (3), 285-288
 Chagas' disease, diagnosis, technique for preservation of red cells sensitized with *Trypanosoma cruzi* antigens to be used in indirect hemagglutination test

Immunity, Agglutination

- Saathoff, M.; Kasper, M.; and Demmer, H., 1978, Deutsche Med. Wchnschr., v. 103 (41), 1606-1608, 1609-1611
Trichinella spiralis, humans, animals, diagnosis, sensitivity and specificity of 4 different serological tests, serologic differentiation from some other helminth infections with which cross-reactions occur

Immunity, Agglutination

- Sabonge A., R., 1976, Rev. Med. Panama, v. 1 (1), 36-39
E[ntamoeba] histolytica, human hepatic abscess, diagnosis using the latex agglutination test gave some false positive reactions in normal controls, recommendations therefore that the quantitative indirect agglutination test be used for diagnostic purposes

Immunity, Agglutination

- dos Santos, R. R.; Amato Neto, V.; and Gioia, I., 1975, Rev. Goiana Med., v. 21 (1-2), 23-27
Leptomonas pessoai antigens and sera of patients infected with *Trypanosoma cruzi* gave frequent positive reactions with the passive hemagglutination, complement fixation and indirect immunofluorescence tests, possible implications for prophylactic vaccine for Chagas disease

Immunity, Agglutination

- Sato, Y.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 209-221
Angiostrongylus cantonensis, human, 7 suspected cases, immunodiagnosis (gel diffusion, immunoelectrophoresis, indirect hemagglutination, skin test), cross-reactions with other helminths observed: Okinawa

Immunity, Agglutination

- Schantz, P. M., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 179-194
Echinococcus granulosus-infected sheep, comparative evaluation of the intradermal, Bentonite flocculation, and indirect hemagglutination diagnostic tests, some cross reactions with *Taenia hydatigena*-infected sheep (nat. and exper.), histopathology of intradermal reactions

Immunity, Agglutination

- Schmunis, G. A.; et al., 1977, Rev. Hosp. Ninos, Buenos Aires (73), v. 19, 15-20
Trypanosoma cruzi, humans, diagnosis of acute infections by the direct agglutination test and by indirect immunofluorescence, techniques also useful in evaluating effects of therapy

Immunity, Agglutination

- Shaddock, J. A.; and Geroulo, M. J., 1979, Lab. Animal Sc., v. 29 (3), 330-334
Encephalitozoon cuniculi, rabbits, diagnosis, indirect microagglutination test

Immunity, Agglutination

- Shaker, Z. A.; et al., 1976, Egypt. J. Bilharz., v. 3 (2), 221-232
Schistosoma mansoni, *S. haematobium*, humans, demonstration of circulating bilharzial antigens using indirect haemagglutination and complement fixation techniques, correlation between % of positive cases and host age, duration of infection, clinical presentation, schistosome species, intradermal test results, and effect of chemotherapy

Immunity, Agglutination

- Sheehan, D. J.; et al., 1979, J. Clin. Microbiol., v. 10 (2), 128-133
Entamoeba histolytica, human, diagnosis, comparison of microscopic, cultural, counterimmunoelectrophoresis, and indirect hemagglutination techniques

Immunity, Agglutination

- da Silva, L. C.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (2), 121-130
Schistosoma mansoni, humans, immunodiffusion, hemagglutination, immunofluorescence and eosinophil counts before and after therapy with hycanthone or niridazole

Immunity, Agglutination

- da Silva, L. C.; et al., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (6), 344-349
 human schistosomiasis *mansoni*, immunofluorescence, passive hemagglutination, and immunodiffusion tests used to detect early antibody increases after hycanthone therapy

Immunity, Agglutination

- Singh, B.; et al., 1978, Indian Vet. J., v. 55 (9), 677-679
Babesia equi, donkeys, horses, diagnosis, capillary tube-agglutination test, no cross-reactions with related haemoprotozoan antisera

Immunity, Agglutination

Smith, H. V.; and Tonkin, C. H., 1979, Research Vet. Sc., v. 26 (3), 302-307

Hyostrongylus rubidus, antigens prepared from various developmental stages and fractionation of adult worms, activity and usefulness as aid to serodiagnosis by passive haemagglutination and skin hypersensitivity reactions

Immunity, Agglutination

Stanley, H. A.; Honigberg, B. M.; and Cunningham, I., 1979, Ztschr. Parasitenk., v. 58 (2), 141-149

Trypanosoma brucei brucei, mice, antigenic analyses of first-peak parasitemias initiated with culture- and tsetse fly-derived metacyclics, agglutination technique

Immunity, Agglutination

Stein, P. C.; and Basch, P. F., 1979, J. Invert. Path., v. 33 (1), 10-18

Biomphalaria glabrata, purification of hemagglutinin from hemolymph, albumin glands, and egg masses, binding to *Schistosoma mansoni* larval stages in vitro and in vivo

Immunity, Agglutination

Storni, P.; et al., 1979, Rev. Asoc. Bioquim. Argent. (237), v. 43, 69-77

T[rypanosoma] cruzi, soldiers from 4 different provinces in 3 different years, prevalence of infection, correlation between different serodiagnostic methods: northeastern Argentina

Immunity, Agglutination

Suzuki, T.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (4), 184-191

Anisakis, Terranova, human, immunological diagnosis, intradermal and indirect hemagglutination tests, histopathological examination of biopsied gastric mucous membranes

Immunity, Agglutination

Suzuki, T.; et al., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (1), 17-23

Anisakis, analysis of criteria on intradermal and indirect hemagglutination tests by radioimmunoassay

Immunity, Agglutination

Taguri, S.; and Dar, F. K., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 338-341

hydatid disease, human, differential diagnosis from cancer on basis of blood values and liver function tests, comparison of 3 immunodiagnostic tests (intradermal, complement fixation, indirect haemagglutination), usefulness of post-operative serological surveillance: Libya

Immunity, Agglutination

Takayanagi, T.; et al., 1978, Exper. Parasitol., v. 44 (1), 82-91

Trypanosoma gambiense, neonatal rats receiving antibodies from female, protective, agglutinating, and phagocytosis-promoting characteristics of sera

Immunity, Agglutination

Tandon, A.; Zahner, H.; and Laemmler, G., 1979, Tropenmed. u. Parasitol., v. 30 (2), 189-193

Chagas' disease, human serum, new method for estimation of complement fixing antibodies (complement-enzyme linked immuno sorbent assay or CELISA) compared with haemolytic complement fixation, indirect haemagglutination, and ELISA

Immunity, Agglutination

Taylor, L. V., 1979, Austral. Vet. Practitioner, v. 9 (2), 79

Toxoplasma gondii, cats, random survey using Wellcome ToxHa Test haemagglutination kit

Immunity, Agglutination

Tönder, O.; Closs, O.; and Digraanes, A., 1974, Scand. J. Infect. Dis., v. 6 (1), 63-68

Toxoplasma gondii, human, comparison of the indirect haemagglutination and dye test for detection of antibodies

Immunity, Agglutination

Torres-Rodriguez, J. M.; and Wisnivesky, C., 1978, Ann. Parasitol., v. 53 (5), 479-486

Echinococcus granulosus, mice (exper.), kinetics of serological response, immunoelectrophoresis, double diffusion, latex agglutination, and passive hemagglutination

Immunity, Agglutination

Tribouley, J.; et al., 1978, Ann. Parasitol., v. 53 (1), 21-31

toxoplasmosis, human, seroepidemiologic survey, complement fixation and passive haemagglutination tests, age of host, possible sources of infection: Guadeloupe; Martinique

Immunity, Agglutination

Tsubota, N.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 286-290

Toxoplasma, human, diagnosis, microtiter latex agglutination test

Immunity, Agglutination

Tsubota, N.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 291-298

Toxoplasma, swine, rabbits, cats, mice, diagnosis, microtiter latex agglutination test

Immunity, Agglutination

Tsubota, N.; and Ozawa, H., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 276-285

Toxoplasma, sensitized latex for microtiter agglutination test, preparative conditions and stability of reagent

Immunity, Agglutination

Varela-Diaz, V. M.; and Coltorti, E. A., 1975, Rev. Espan. Tubercul. (487), v. 44, 543-554

human echinococcosis, latex agglutination and indirect hemagglutination tests recommended for diagnostic purposes

Immunity, Agglutination

Vinayak, V. K.; et al., 1979, J. Parasitol., v. 65 (3), 407

Macaca mulatta naturally infected with *ameba* morphologically indistinguishable from *Entamoeba histolytica*, indirect hemagglutination titers to antigens from *Entamoeba histolytica* and from *ameba* of *Macaca mulatta*

Immunity, Agglutination

Volkmer, K. J., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 535-543

Paragonimus uterobilateralis, humans, clinical aspects, symptoms, diagnosis by X-ray, sputum examination, or indirect hemagglutination: East-Nigeria

Immunity, Agglutination

Walther, M.; and Sanitz, W., 1979, Berl. u. Munchen. Tierarztl. Wchnschr., v. 92 (7), 151-155

Taenia saginata, calves (exper.), enzyme-linked immunosorbent assay using T. saginata and T. crassiceps antigens, comparison with indirect hemagglutination during course of infection and following praziquantel treatment

Immunity, Agglutination

Wang, L. T., 1973, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 72 (11), 619-623
Entamoeba histolytica, humans, diagnosis by indirect haemagglutination test using antigen from axenic culture, more specific for amoebic liver abscess than for intestinal infection

Immunity, Agglutination

Willadsen, P.; et al., 1978, Internat. J. Parasitol., v. 8 (2), 89-95
Boophilus microplus, partial purification of allergen 2, allergens 1 and 2 tested on cattle for relationships between tick resistance, immediate hypersensitivity reactions, reaginic antibody levels as measured by Prausnitz-Kustner type reactions, and serum levels of agglutinating antibody

Immunity, Agglutination

Williams, J. F.; and Prezioso, U., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (5), 333-335
Echinococcus granulosus, human, diagnosis, passive hemagglutination test, evaluation of glutaraldehyde as fixing and coupling agent

Immunity, Agglutination

Wilson, A. J.; et al., 1978, Austral. Vet. J., v. 54 (8), 383-386
Anaplasma marginale, cattle, comparison of 4 serological tests for detection of humoral antibodies (capillary agglutination, complement fixation, plate agglutination, and indirect fluorescent antibody)

Immunity, Agglutination

Wissler, K.; and Eckert, J., 1979, Therap. Umschau, v. 36 (3), 233-240
Entamoeba histolytica, human, seroimmunologic survey comparing indirect immunofluorescent, latex agglutination, and indirect hemagglutination tests

Immunity, Agglutination

Woo, P. T. K.; and Kobayashi, A., 1975, Ann. Soc. Belge Med. Trop., v. 55 (1), 37-45
Trypanosoma brucei-infected rabbits, postulation on mechanism of anemia (that red blood cells are coated on surface by trypanosome antigen-antibody complexes and that these cells under certain conditions are lysed by complement or agglutinated and removed by spleen)

Immunity, Agglutination

Yamashita, T.; Sato, Y.; and Otsuru, M., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (2), 87-93
Dirofilaria immitis, diagnosis, indirect hemagglutination test, antigen purification

Immunity, Agglutination

Yang, J.; and Kennedy, M. T., 1979, J. Clin. Microbiol., v. 10 (6), 778-785
Entamoeba histolytica, human, diagnosis, development and evaluation of enzyme-linked immunosorbent assay, compared with indirect fluorescent antibody and indirect hemagglutination techniques

Immunity, Agglutination

Yap, E. H.; et al., 1975, Singapore Med. J., v. 16 (1), 31-38
Entamoeba histolytica, evaluation of indirect haemagglutination test for diagnosis, trophozoites grown in bacteria-free cultures used as antigen, merits of technique discussed

Immunity, Agglutination

Yong, W. K.; Heath, D. D.; and Parmeter, S. N., 1978, N. Zealand Vet. J., v. 26 (9), 231-234
Echinococcus granulosus, Taenia hydatigena, T. ovis, sheep (nat. and exper.), indirect haemagglutination test using cyst fluids as antigens, serological cross-reactions, test useful for non-specific detection of larval cestodes

Immunity, Agglutination

Yoshimura, K.; et al., 1979, Japan. J. Vet. Sc., v. 41 (3), 245-259
Angiostrongylus cantonensis in 8 strains of inbred rats, occurrence of acquired resistance, kinetics of humoral immune response (reaginic and indirect hemagglutination antibody response)

Immunity, Agglutination

Zapart, W.; and Przyjalkowski, Z., 1976, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 24 (5), 293-298
Toxocara canis, laboratory mice, diagnosis by ring precipitation and latex agglutination; hematological changes

Immunity, Agglutination

Zheleva, R. Ts., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (2), 160-165
larva migrans, human, diagnosis, evaluation of indirect hemagglutination test with Toxocara canis and Ascaris suum as antigen

Immunity, Agglutination

Zyngier, F. R., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 427-432
Ascaris suum and Toxocara canis, rabbits and Rhesus monkeys, diagnosis using T. canis antigen for complement fixation, passive haemagglutination, and immunodiffusion tests, extensive cross-reactivity

Immunity, Allergy

Antunes, L. J.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (1), 9-13
human intestinal schistosomiasis mansoni before and after treatment with aminonitrothiazole, immunoglobulin levels, immediate and delayed cutaneous hypersensitivity

Immunity, Allergy

Arbesman, C. E.; Wypych, J. I.; and Reisman, R. E., 1973, Immunol. Series, v. 1, 163-176
serum IgE levels in variety of human diseases, including parasitic

Immunity, Allergy

Ashton, N.; and Cook, C., 1979, Ophthalmology, v. 86 (1), 8-42
allergic granulomatous nodules of the eyelid and conjunctiva, humans, several cases caused by unidentified nematodes, clinical, histological and pathological features

Immunity, Allergy

Badr-El-Din, M. K.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (9-10), 194-196
ascariasis in children, function of beta adrenergic receptors evaluated, indicates that ascaris antigens may have beta adrenergic blockade activity

Immunity, Allergy

Bakalarska, A.; Frymus, T.; and Schollenberger, A., 1978, Zentralbl. Vet.-Med., Reihe B, v. 25 (2), 152-156
Ascaris suum, pigs (exper.), lack of homocytotropic antibody potentiation after sensitization with equine serum

Immunity, Allergy

Barbaro, J. F., 1972, Immun. Animal Parasites, 131-153
immediate hypersensitivity effector mechanisms, in vitro reactions

Immunity, Allergy

Bartlett, A.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 372-377
onchocerciasis, human, immediate and delayed skin reactions to Onchocerca volvulus and Necator americanus antigens, variations in response in generalized vs. localized (sowda) forms of disease

Immunity, Allergy

Bell, J. F.; Stewart, S. J.; and Wikel, S. K., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5) 876-880
Dermacentor andersoni-sensitized rabbits, resistance to tick-borne Francisella tularensis attributed to allergic klenodusity (disease escaping ability)

Immunity, Allergy

Bennett, L. J., 1978, J. Parasitol., v. 64 (1), 182-185
Australian spargana, mice, immunological responses (tissue reactions, precipitating antibodies, anaphylactic reactions) not found to be weak or abnormal

Immunity, Allergy

Beznos, T. V.; Linnik, V. Ia.; and Bekish, O. Ia. L., 1977, Vet. Nauka--Proizvod., Trudy, Minsk, v. 15, 95-98
opisthorchiasis antigen-sensitized rats, changes in histamine levels indicate disruption of histamine metabolism

Immunity, Allergy

Bloch, K. J., 1973, Immunol. Series, v. 1, 11-32
reaginic and other homocytotropic antibodies: diverse immunoglobulins with common function, review including information on Nippostrongylus brasiliensis-rat system

Immunity, Allergy

Bloch, K. J.; et al., 1979, Gastroenterology, v. 77 (5), 1039-1044
Nippostrongylus brasiliensis-infected rats, normal rats, or rats subjected to mild systemic anaphylaxis, intestinal uptake of protein antigen (bovine serum albumin)

Immunity, Allergy

Boucher, R. C.; Pare, P. D.; and Hogg, J. C., 1979, J. Allergy and Clin. Immunol., v. 64 (3), 197-201
Ascaris-sensitive Macaca mulatta, relationship between airway hyperreactivity and hyperpermeability

Immunity, Allergy

Boulard, C. F., 1979, Vet. Parasitol., v. 5 (4), 379-387
Hypoderma-infected or uninfected calves, treatment with fenthion or trichlorfon, blood histamine levels, circulating antibody titers to Hypoderma lineatum antigen in infected calves; blood histamine levels in guinea pigs after injection of ground-up Hypoderma lineatum larvae or application of fenthion

Immunity, Allergy

Brossard, M.; and Girardin, P., 1979, Experimentia, v. 35 (10), 1395-1397
Ixodes ricinus, rabbits, passive transfer of resistance with immune serum, effect on feeding and egg laying, IgG and homocytotropic specific antibodies of donors and recipients, immediate skin sensitivity of recipients

Immunity, Allergy

Capron, M.; et al., 1978, European J. Immunol., v. 8 (2), 127-133
Schistosoma mansoni, rats, eosinophil-dependent cytotoxicity, involvement of IgG_{2a} antibody and role of mast cells, these and previous observations suggest possible participation of anaphylactic antibodies in immunity to schistosomes in the rat

Immunity, Allergy

Cargill, C. F.; and Dobson, K. J., 1979, Vet. Rec., v. 104 (1), 11-14
Sarcoptes scabiei var. suis, pigs (exper.), clinical signs and pathological changes associated with sarcoptes hypersensitivity

Immunity, Allergy

Cargill, C. F.; and Dobson, K. J., 1979, Vet. Rec., v. 104 (2), 33-36
Sarcoptes scabiei var. suis, growing pigs housed and fed under optimal and sub-optimal conditions of management, effect of experimental infections on growth rates and feed conversion efficiencies, concluded that loss of productivity is closely related to intensity of hypersensitivity reaction

Immunity, Allergy

Coombs, R. R. A., 1976, Immunol. Parasit. Infect., 431-435
immunopathology due to Type II reactions, review

Immunity, Allergy

Dafalla, A. A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 309-310
Toxocara canis, mice, homologous passive cutaneous anaphylactic reactions

Immunity, Allergy

Dandeu, J. P.; and Lux, M., 1978, Immunol. Commun., v. 7 (4), 393-415
Ascaris suum, purification and characterization of 2 proteins from whole worm extract, they are antigenically different but bear common allergenic epitopes, development of new immediate hypersensitivity reaction test

Immunity, Allergy

Day, K. P.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 217-239

Nippostrongylus brasiliensis vs. *Nematospiroides dubius*, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses

Immunity, Allergy

De Clerck, F.; et al., 1978, *Agents and Actions*, v. 8 (6), 568-571

Trichinella spiralis sensitized mice, oxatolide protects against lethal anaphylaxis while it offers little protection against serotonin toxicity

Immunity, Allergy

Dineen, J., 1978, *Immunol. Series*, v. 7, 211-257

helminthiasis, role of homocytotropic antibodies in immunity and pathology with special reference to induction and potentiation of IgE production, review

Immunity, Allergy

Doury, P.; et al., 1977, *Semaine Hop. Paris*, v. 53 (22-23), 1359-1363

parasitic rheumatism, humans, diagnosis, management, possible immuno-allergic mechanism

Immunity, Allergy

El-Raziky, E. H.; et al., 1977, *Egypt. J. Biharm.*, v. 4 (2), 195-201

Schistosoma mansoni, *S. haematobium*, humans, delayed skin test reactions to *S. mansoni* antigen were increased with host age and severity of infections and were more frequent in males, correlations with immediate skin test reactions

Immunity, Allergy

Ershov, V. S.; and Naumycheva, M. I., 1978, *Vestnik Sel'skokhoz. Nauki* (266) (11), 13-20

helminth-parasitized animals, sensitization, tests for IgE, review

Immunity, Allergy

Fain, A.; Vandepitte, J.; and Wery, M., 1974, *Ann. Soc. Belge Med. Trop.*, v. 54 (2), 121-127

Onchocerca volvulus microfilaraemia discovered in 8 adult natives, microfilaraemia occurred in villages with highest microfilarial skin density, passage into blood thought related to skin allergy developing gradually after repeated superinfestations: Zaire

Immunity, Allergy

Fonseca, O. J. de M.; Lacaz, C. da S.; and Machado, P. de A., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (6), 409-416

immuno-allergic survey, humans, antigens employed included schistosomin and leishmanin: Estado de Amazonas

Immunity, Allergy

Frazier, C. A., 1973, *Arch. Dermat.*, Chicago, v. 107 (3), 400-402

biting insects, survey of types of allergic reactions in man and results of hyposensitization

Immunity, Allergy

Fujita, K.; Ikeda, T.; and Tsukidate, S., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 60 (2), 121-131

Dirofilaria immitis, highly purified allergen, immunological and physicochemical properties

Immunity, Allergy

Gabriel, B. W.; and Justus, D. E., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 60 (3), 275-285

Trichinella spiralis, mice, quantitation of immediate and delayed hypersensitivity responses, correlation with worm expulsion

Immunity, Allergy

Gold, W. M.; et al., 1977, *J. Applied Physiol.*, v. 43 (2), 271-275

changes in airway mast cells and histamine caused by specific antigen aerosol in *Ascaris suum*-allergic dogs

Immunity, Allergy

Hogg, J. C.; Pare, P. D.; and Boucher, R. C., 1979, *Fed. Proc.*, v. 38 (2), 197-201

Ascaris suum-sensitive rhesus monkeys used in studies of bronchial mucosal permeability

Immunity, Allergy

Honda, M.; et al., 1978, *Virchows Arch., B Cell Path.*, v. 27 (4), 317-333

macrophage chemotactic factor sharing common antigenicity with IgG from DNP-*Ascaris suum* extract-induced skin lesion in guinea-pig

Immunity, Allergy

Ishizaka, K.; and Kishimoto, T., 1973, *Immunol. Series*, v. 1, 63-81

cellular basis of reaginic antibody formation in vitro, DNP-*Ascaris suum* used as antigen

Immunity, Allergy

Ishizaka, K.; and Kishimoto, T., 1978, *Immunol. Series*, v. 7, 165-188

cellular mechanisms for secondary IgE antibody response in vitro by rabbit lymph node cells, review, DNP-*Ascaris suum* as one of antigens used

Immunity, Allergy

Ishizaka, K.; Okudaira, H.; and Takatsu, K., 1978, *Immunol. Series*, v. 7, 127-164

IgE antibody response in inbred mice, review, DNP-*Ascaris suum* as one of antigens used, also includes some information on *Nippostrongylus brasiliensis*

Immunity, Allergy

Johnson, H. G.; VanHout, C. A.; and Wright, J. B., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 56 (6), 481-487

immediate type hypersensitivity to *Ascaris suum* antigen in Rhesus reactor monkeys used to assess pharmacologic profile of two anti-allergy drugs

Immunity, Allergy

Joseph, S. A., 1977, *Indian J. Animal Research*, v. 11 (2), 84-86

Ctenocephalides felis orientis in 4 human volunteers, dermatitis, immediate and delayed hypersensitivity

- Immunity, Allergy
Kassur, B.; et al., 1974, *Przegl. Epidemiol.*, v. 28 (3), 283-291
Trichinella spiralis, humans, differential diagnostic difficulties, analysis of cases showed a predominance of allergic symptoms in the early stages of infection and protein deficiency in late stages as the 2 most confusing diagnostic presentations
- Immunity, Allergy
Katz, D. H.; et al., 1979, *J. Immunol.*, v. 122 (6), 2184-2190
regulation of IgE antibody production by serum molecules, complete Freund's adjuvant induces both enhancing and suppressive activities detectable in the serum of low and high responder mice, DNP-Ascaris used as antigen
- Immunity, Allergy
Katz, D. H.; et al., 1979, *J. Immunol.*, v. 122 (6), 2191-2197
regulation of IgE antibody production by serum molecules, evidence that coincidental sensitization and imbalance in the normal damping mechanism results in "allergic breakthrough", DNP-Ascaris used as antigen
- Immunity, Allergy
Kay, A. B., 1979, *J. Allergy and Clin. Immunol.*, v. 64 (2), 90-104
Schistosoma mansoni, relationship among mast cell mediators, complement, and preferential killing of schistosomula by the human eosinophil, review; speculations as to why, in phylogeny, humans might have developed and retained acute allergic response
- Immunity, Allergy
Kern, P.; Dietrich, M.; and Volkmer, K. J., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 65-72
Echinococcus alveolaris, E. granulosus, humans, clinical trials with mebendazole, allergic reactions in 2 of 7 treated probably due to spillage of antigenic material, no other serious side effects
- Immunity, Allergy
Kozachenko, N. G.; and Vasil'kov, G. V., 1977, *Veterinariia, Moskva* (7), 59-62
Philometroides lusiana, carp, serology did not reveal any antibodies, allergic reaction nonspecific; host specific antigen recovered from extract of P. lusiana but not from Bothriocephalus gowkongensis
- Immunity, Allergy
Krell, R. D.; and Chakrin, L. W., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 56 (1), 39-47
pharmacologic regulation of Ascaris antigen-induced mediator release from fragmented canine lung
- Immunity, Allergy
Kristensen, S.; and Kieffer, M., 1978, *Nord. Vet.-Med.*, v. 30 (10), 414-423
flea allergy in dogs and cats, intradermal test with whole extract of Ctenocephalides felis; test evaluation procedure
- Immunity, Allergy
Laltoo, H.; Van Zoost, T.; and Kind, L. S., 1979, *Immunol. Commun.*, v. 8 (1), 1-9
Myocoptes musculus, mice, positive skin test to mite antigens, kinetics of IgE antibody response to mite antigens, mast cell degranulation by mite extract
- Immunity, Allergy
Lazarus, S. C.; et al., 1979, *J. Applied Physiol.*, v. 46 (5), 919-926
Ascaris suum, experimental canine anaphylaxis, cyclic nucleotides, histamine, and lung function
- Immunity, Allergy
Levi, R.; Zavecz, J. H.; and Ovary, Z., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (6), 529-534
IgE-mediated cardiac hypersensitivity reactions; experimental model, DNP-Ascaris used as antigen
- Immunity, Allergy
Lopez-Brea, M.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 600 [Letter]
Giardia lamblia infection should be sought in children with bronchial asthma or chronic diarrhea
- Immunity, Allergy
McGowan, M. J.; Camin, J. H.; and McNew, R. W., 1979, *J. Parasitol.*, v. 65 (5), 692-699
Haemaphysalis leporispalustris infestations of juvenile and adult Sylvilagus floridanus from January 1974-December 1975 in Douglas County, Kansas, relationship to skin-sensitizing antibody production, models used to interpret data show promise for predicting tick population fluctuations and incidence of vector borne disease outbreaks, implications of existence of resistance to tick attachment
- Immunity, Allergy
Marretta, J.; and Casey, F. B., 1979, *Immunology*, v. 37 (3), 609-613
Ascaris suum, Nippostrongylus brasiliensis, effect on potentiation of IgE response in guinea pigs
- Immunity, Allergy
Michoud, M.-C.; et al., 1978, *J. Applied Physiol.*, v. 45 (6), 846-851
Ascaris suum-allergic Macaca mulatta, airway responses to histamine and methacholine
- Immunity, Allergy
Michoud, M. C.; et al., 1979, *Am. Rev. Resp. Dis.*, v. 119 (3), 419-424
Ascaris suum-sensitive rhesus monkeys, airway sensitivity to slow-reacting substance of anaphylaxis, histamine, and antigen
- Immunity, Allergy
Miyamoto, T.; et al., 1975, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 24 (4), 220-226
Schistosoma japonicum, humans, total IgE by single radial immunodiffusion method, specific IgE by radioallergosorbent test, threshold values of skin tests: Yamanashi Prefecture
- Immunity, Allergy
Murray, M., 1972, *Immun. Animal Parasites*, 155-190
immediate hypersensitivity effector mechanisms, in vivo reactions

Immunity, Allergy

Musoke, A. J.; Williams, J. F.; and Leid, R. W., 1978, *Immunology*, v. 34 (3), 565-570

Taenia taeniaeformis, systemic sensitization with reaginic antibodies accelerates rate at which challenge organisms are killed in passively immunized rats, inflammatory mediators which are released during immediate hypersensitivity responses may have direct effects on viability of early larval stages of parasite, these results indicate that reaginic antibody may play role in protective mechanism of immunity against *Taenia taeniaeformis* in the rat

Immunity, Allergy

O'Donnell, I. J.; and Mitchell, G. F., 1978, *Austral. J. Biol. Sc.*, v. 31 (5), 459-487

Ascaris lumbricoides (var. suum), humans, mice, allergens investigated using radio-allergosorbent test and passive cutaneous anaphylaxis test, cross-reactions with other helminths, some biochemical and immunobiological properties of allergens

Immunity, Allergy

Olson, C. E.; and Schiller, E. L., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 521-526

Strongyloides ratti, rats, primary and secondary infections, expulsion kinetics and intestinal mast cell counts, antithymocyte serum suppressed expulsion as well as intestinal mast cell and circulating eosinophil responses to primary infection

Immunity, Allergy

Parab, P. B.; et al., 1979, *Indian J. Med. Research*, v. 69, 122-127

tropical eosinophilia, humans, immune response to various parasitic antigens, rat mast cell degranulation and migration inhibition tests show most are sensitized to filarial antigens

Immunity, Allergy

Patterson, R.; and Harris, K. E., 1978, *J. Allergy and Clin. Immunol.*, v. 61 (4), 261-267

Macaca mulatta colony with consistent asthmatic responses to *Ascaris* antigen challenge, qualitative evaluation of airway responses to immunologic and pharmacologic stimuli

Immunity, Allergy

Patterson, R.; Harris, K. E.; and Greenberger, P. A., 1978, *Life Sc.*, v. 22 (5), 389-399

Ascaris suum-sensitive *Macaca mulatta*, effect of arachidonic acid on airway responses

Immunity, Allergy

Patterson, R.; Kelly, J. F.; and Suszko, I. M., 1973, *Immunol. Series*, v. 1, 451-455

physiological and cellular studies of reagin mediated respiratory reactions to *Ascaris* antigen in rhesus monkeys, review

Immunity, Allergy

Patterson, R.; Orange, R.; and Harris, K. E., 1978, *J. Allergy and Clin. Immunol.*, v. 62 (6), 371-377

Macaca mulatta with established airway responses to *Ascaris* antigen, effect of slow-reacting substances of anaphylaxis on airway

Immunity, Allergy

Patterson, R.; Suszko, I. M.; and Harris, K. E., 1978, *Tr. Ass. Am. Physicians*, v. 91, 180-185

passive transfer of immediate-type airway responses to nonreactive rhesus monkeys using *Ascaris suum* antigen reactive bronchial lumen mast cells; possibly similar pathogenic implications for man

Immunity, Allergy

Poletaeva, O. G., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (2), 143-148

Ascaris suum-infected laboratory animals, reagin-like antibody detected by passive dermal anaphylaxis test and by direct degranulation of mast cells; antibody appeared to belong to IgE; suggested that it participates in host protective response

Immunity, Allergy

Preston, P. M.; Behbehani, K.; and Dumonde, D. C., 1978, *J. Clin. and Lab. Immunol.*, v. 1 (3), 207-219

Leishmania tropica major, experimental cutaneous leishmaniasis, anergy and allergy in cellular immune response during non-healing infection in different strains of mice

Immunity, Allergy

Ristic, P., 1974, *Srpski Arhiv Tselok. Lekar.*, v. 102 (6), 473-478

Ascaris intradermal test resulted in anaphylactic shock with allergic reactions involving the myocardium, woman, case report

Immunity, Allergy

Rothwell, T. L. W.; Love, R. J.; and Evans, D. P., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 56 (5), 457-462

Trichostrongylus colubriformis, expulsion of worms transplanted into duodenum of immune guinea pigs, inhibition by drugs which modify release of histamine, results suggest important role for histamine release in effector mechanism of immune response

Immunity, Allergy

Ruitenbergh, E. J.; and Buys, J., 1979, *Vet. Parasitol.*, v. 5 (1), 73-78

Trichinella spiralis, pigs, analyses for IgE performed by homologous passive cutaneous anaphylactic reactions and for IgG by enzyme linked immunosorbent assay, possible significance of findings for early diagnosis of infections

Immunity, Allergy

Sadun, E. H., 1972, *Immun. Animal Parasites*, 97-129

homocytotropic antibody response to parasitic infections, review

Immunity, Allergy

Sato, Y.; et al., 1975, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 24 (4), 192-202

Anisakis- or *Ascaris*-sensitized guinea pigs, in vitro anaphylactic reaction of segmented ileums to various whole worm extracts

Immunity, Allergy

Senft, A. W.; et al., 1979, *Parasite Immunol.*, v. 1 (1), 79-89

Schistosoma mansoni, *Schistosoma haematobium*, species-specificity of immediate hypersensitivity to schistosomal proteolytic enzyme (mouse mast cell degranulation and monkey skin tests)

- Immunity, Allergy
Sharma, B. K.; et al., 1979, *Lancet*, London (8130), v. 1, 1340-1341 [Letter]
Plasmodium vivax antigen, 40-year-old male, likely cause of recurrent anaphylaxis
- Immunity, Allergy
Strejan, G. H., 1978, *Immunol. Series*, v. 7, 693-735
Ascaris suum, crude extract (preparation, toxic manifestations, mast-cell degranulating peptide, production and detection of reaginic antibodies), allergen (purification and properties, allergens released during active infection), brief remarks on allergens of other nematodes, review
- Immunity, Allergy
Strejan, G. H.; Hussain, R.; and Bradbury S., 1973, *Immunol. Series*, v. 1, 33-42
Ascaris allergen, immunogenicity function (ability to stimulate production of reaginic antibodies) in comparison with other antigens
- Immunity, Allergy
Stromberg, B. E., 1979, *Immunology*, v. 38 (3), 489-495
Ascaris suum, new allergen (ACF antigen) obtained from developing larvae maintained in chemically defined culture medium, production of IgE and IgG1 antibodies in guinea-pigs, importance of route of administration
- Immunity, Allergy
Tacorian, D.; et al., 1978, *Rev. Chir. (Oftalmologia)*, Bucuresti, v. 22 (1), 73-76
human retinal periphlebitis and uveitis, possible allergic reaction to triple infection of Ancylostoma duodenale, Trichuris trichiura, Ascaris lumbricoides, clinical case report
- Immunity, Allergy
Tada, T., 1978, *Immunol. Series*, v. 7, 101-126
cellular interactions involved in initiation and suppression of IgE synthesis in rats, review, DNP-Ascaris suum as one of antigens used, also includes mention of potentiated reagin formation by Nippostrongylus brasiliensis infection
- Immunity, Allergy
Tada, T.; Okumura, K.; and Taniguchi, M., 1973, *Immunol. Series*, v. 1, 43-61
cellular and humoral controls of reaginic antibody synthesis in the rat, dinitrophenylated Ascaris suum extract used as immunizing antigen
- Immunity, Allergy
Tewari, H. C.; Raviprakash, V.; and Sabir, M., 1978, *Indian J. Physiol. and Pharmacol.*, v. 22 (3), 321-323
Dictyocaulus filaria, vascular permeability increasing action of worm extract in both infected and uninfected sheep and in uninfected rabbits partially due to histamine release, cutaneous hypersensitivity reaction may not provide reliable test for routine diagnosis
- Immunity, Allergy
Thorson, T. E., 1979, *J. Zoo Animal Med.*, v. 10 (1), 30
flea bite allergic dermatitis, Vulpes fulva, house pet, successful treatment with hypo-sensitization and flea control, case report
- Immunity, Allergy
Triolo, G.; et al., 1973, *Rendic. Gastro-enterol.*, v. 5 (2), 97-99
echinococcosis, human hepatic, complicated by allergic hepatitis, case reports, resolution of symptoms after excision of cysts
- Immunity, Allergy
Turner, K. J.; Feddema, L.; and Quinn, E. H., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 58 (2), 232-236
Ascaris lumbricoides, Necator americanus, non-specific potentiation of IgE by parasitic infections in man
- Immunity, Allergy
Turner, K. J.; Quinn, E. H.; and Anderson, H. R., 1978, *Immunology*, v. 35 (2), 281-288
asthmatic subjects from Papua New Guinea had total serum IgE levels higher than Caucasian asthmatics but similar levels of IgE antibody to mite antigens, mite-specific antibody levels were independent of those to Ascaris and hookworm, implications for possible mechanism of regulation of asthma by intestinal parasites
- Immunity, Allergy
Vargas, D. L., 1974, *Salud Pub. Mexico*, v. 16 (5), 751-754
Onchocerca volvulus, human, coast erysipelas (Guatemala) or 'purple illness' (Mexico) refers to cutaneous pathology of Arthus type reaction, treatment
- Immunity, Allergy
Vernes, A., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 455-468
helminthiasis, humans, value and limitations of hypersensitivity reactions for diagnosis, review
- Immunity, Allergy
Wanner, A.; et al., 1979, *J. Applied Physiol.*, v. 47 (5), 917-922
airway responses to bronchial challenge with Ascaris suum extract in sensitized conscious sheep, correlation of physiological changes with blood histamine levels
- Immunity, Allergy
Warren, K. S.; Grove, D. I.; and Pelley, R. P., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (2, pt. 1), 271-275
Schistosoma japonicum egg granuloma, cellular composition, size, immunologic concomitants, differences from S. mansoni
- Immunity, Allergy
Watanabe, N.; and Ovary, Z., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (6), 554-559
Nippostrongylus brasiliensis, AKR mice, enhancement of IgE antibody production was obtained by priming helper cells with parasite infection, X-ray irradiation eliminated suppressor cells
- Immunity, Allergy
Weissburg, R. M.; and Garay, G. L., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (1), 85-94
Ascaris suum-induced immediate-type respiratory responses in conscious Macaca mulatta

Immunity, Allergy

- Willadsen, P.; et al., 1978, *Internat. J. Parasitol.*, v. 8 (2), 89-95
Boophilus microplus, partial purification of allergen 2, allergens 1 and 2 tested on cattle for relationships between tick resistance, immediate hypersensitivity reactions, reaginic antibody levels as measured by Prausnitz-Kustner type reactions, and serum levels of agglutinating antibody

Immunity, Allergy

- Willadsen, P.; and Riding, G. A., 1979, *Biochem. J.*, v. 177 (1), 41-47
Boophilus microplus, proteolytic-enzyme inhibitor with allergenic activity, purification and partial characterization

Immunity, Allergy

- Willadsen, P.; Wood, G. M.; and Riding, G. A., 1979, *Ztschr. Parasitenk.*, v. 59 (1), 87-93
Boophilus microplus, *Bos taurus* of high and low resistance, skin histamine concentration, histamine sensitivity, suppression of cutaneous hypersensitivity reactions with mepyramine maleate

Immunity, Allergy

- Wright, I. G., 1978, *Vet. Parasitol.*, v. 4 (4), 393-398
Babesia bovis-infected *Bos taurus*, biogenic amine levels in plasma and whole blood, probable role in cardiovascular disturbances

Immunity, Allergy

- Yodoi, J.; Ishizaka, T.; and Ishizaka, K., 1979, *J. Immunol.*, v. 123 (1), 455-462
Nippostrongylus brasiliensis-infected rats, increase in proportion of lymphocytes bearing Fc receptors for IgE, induction of these Fc ϵ -receptor bearing rat lymphocytes by IgE itself in vitro

Immunity, Allergy

- Yoshimura, K.; et al., 1979, *Japan. J. Vet. Sc.*, v. 41 (3), 245-259
Angiostrongylus cantonensis in 8 strains of inbred rats, occurrence of acquired resistance, kinetics of humoral immune response (reaginic and indirect hemagglutination antibody response)

Immunity, Allergy

- Zvaifler, N. J., 1976, *Immunol. Parasit. Infect.*, 409-430
 immediate hypersensitivity (Type I) reactions, review

Immunity, Anaphylaxis. See Immunity, Allergy.Immunity, Antigenic variation. [See also Immunity, Antigens]

Immunity, Antigenic variation

- Afchain, D.; et al., 1978, *Bull. World Health Organ.*, v. 56 (3), 389-401
Trypanosoma brucei, antigenic variation, review with recommendations (WHO memorandum)

Immunity, Antigenic variation

- Balber, A. E.; et al., 1979, *Infect. and Immun.*, v. 24 (3), 617-627
Trypanosoma brucei brucei, *T. congolense*, inactivation or elimination of potentially trypanolytic complement-activating immune complexes containing antibodies to variant-specific antigens

Immunity, Antigenic variation

- Barbet, A. F.; and McGuire, T. C., 1978, *Proc. National Acad. Sc.*, v. 75 (4), 1989-1993
Trypanosoma brucei, *T. congolense*, crossreacting determinants in variant-specific surface antigens

Immunity, Antigenic variation

- Barry, J. D., 1979, *J. Cell Sc.*, v. 37, 287-302
Trypanosoma brucei, capping of variable antigen, immunological and biological significance

Immunity, Antigenic variation

- Barry, J. D.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (2), 205-208
Trypanosoma brucei, detection of multiple variable antigen types in metacyclic parasite populations, possible use in diagnosis and vaccination

Immunity, Antigenic variation

- Barry, J. D.; Le Ray, D.; and Herbert, W. J., 1979, *J. Comp. Path.*, v. 89 (4), 465-470
Trypanosoma brucei, white mice, dissociation of virulence and variable antigen type in relation to pleomorphism

Immunity, Antigenic variation

- Barry, J. D.; and Vickerman, K., 1979, *Exper. Parasitol.*, v. 48 (2), 313-324
Trypanosoma brucei, loss of variable antigens during transformation from bloodstream to procyclic forms in vitro

Immunity, Antigenic variation

- Beale, G. H., 1974, *Ciba Found. Symp.*, n.s. (25), 21-33
 genetics of antigenic variation in *Paramecium*, possible model system applicable to parasitic protozoa

Immunity, Antigenic variation

- Bennett, C. E., 1978, *Parasitology*, v. 77 (3), 325-332
Fasciola hepatica, identification of soluble adult antigen on tegumental surface of juveniles

Immunity, Antigenic variation

- Bloom, B. R., 1979, *Nature, London* (5708), v. 279, 21-26
 mechanisms by which parasites escape immune surveillance, review

Immunity, Antigenic variation

- Brown, K. N., 1974, *Ciba Found. Symp.*, n.s. (25), 35-51
 antigenic variation and immunity to malaria, review

Immunity, Antigenic variation

- Brown, K. N., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 59-70
Trypanosoma, *Plasmodium*, *Babesia*, antigenic variation (nature, consequences for protective immunity, possible implications for other protozoan infections), colloquium presentation

Immunity, Antigenic variation

- Campbell, G. H.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 974-983
Trypanosoma brucei rhodesiense, isolation and characterization of new serodeme, model for further study of immunopathology and antigenic variation in African trypanosomiasis

Immunity, Antigenic variation

- Cross, G. A. M., 1977, Ann. Soc. Belg Med. Trop., v. 57 (4-5), 389-402
 [Trypanosoma] spp., identification, purification, and characterization of class of surface glycoproteins which appear to be primary mediators of antigenic variations

Immunity, Antigenic variation

- Cross, G. A. M., 1978, Trends Biochem. Sc., Ref. Ed., v. 3 (1), 49-51
 Trypanosoma, molecular basis of antigenic variation, brief review

Immunity, Antigenic variation

- Cross, G. A. M., 1978, Proc. Roy. Soc. London, s. B, Biol. Sc. (1146), v. 202, 55-72
 Trypanosoma brucei, antigenic variation, characterization of major cell surface antigens, variations in amino acid sequence

Immunity, Antigenic variation

- Cross, G. A. M., 1979, Nature, London (5694), v. 277, 310-312
 Trypanosoma brucei, crossreacting determinants in C-terminal region of variant surface antigens

Immunity, Antigenic variation

- Cross, G. A. M., 1979, J. Gen. Microbiol., v. 113 (1), 1-11
 trypanosomes, immunochemical aspects of antigenic variation, 3rd Fleming Lecture

Immunity, Antigenic variation

- Delachambre, D., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (4), 409-411
 Trichomonas vaginalis, comparison of soluble antigens of 2 cultured clones of different age originating from the same strain

Immunity, Antigenic variation

- de Gee, A. L. W.; Shah, S. D.; and Doyle, J. J., 1979, Exper. Parasitol., v. 48 (3), 352-358
 Trypanosoma vivax, sequence of antigenic variants in mice and goats

Immunity, Antigenic variation

- Gray, A. R., 1977, Ann. Soc. Belg Med. Trop., v. 57 (4-5), 403-408
 trypanosomes, particularly Trypanosoma gambiense, syringe-passaged and cyclically transmitted isolates, antigenic variations

Immunity, Antigenic variation

- Hudson, K. M.; and Terry, R. J., 1979, Parasite Immunol., v. 1 (4), 317-326
 Trypanosoma brucei, chronically infected mice, relationships between course of infection, antigenic variation, and immunodepression of antibody responses to heterologous antigens

Immunity, Antigenic variation

- Jackson, P. R.; Honigberg, B. M.; and Holt, S. C., 1978, J. Protozool., v. 25 (4), 471-481
 Trypanosoma congolense, bloodstream trypomastigotes and culture procyclics, lectin analysis of surface saccharides by agglutination and electron microscopic techniques

Immunity, Antigenic variation

- Jenni, L., 1977, Ann. Soc. Belg Med. Trop., v. 57 (4-5), 383-388
 Trypanosoma brucei brucei complex, antigenic variants in cyclically transmitted strains

Immunity, Antigenic variation

- Johnson, J. G.; and Cross, G. A. M., 1979, Biochem. J., v. 178 (3), 689-697
 Trypanosoma brucei, selective cleavage of variant surface glycoproteins

Immunity, Antigenic variation

- Kanbara, H., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (5), 265-269
 Trypanosoma cruzi, amastigote and trypomastigote forms, surface antigen, relationship to virulence

Immunity, Antigenic variation

- Le Ray, D.; et al., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 369-381
 Trypanosoma brucei brucei EATRO 1125-derived AnTat serodeme, first patent blood stream population following fly transmission shown to be markedly heterogeneous and composed of 19 distinct variable antigen types, possible importance to epidemiologic investigations and future prospects for vaccinations

Immunity, Antigenic variation

- Le Ray, D.; Barry, J. D.; and Vickerman, K., 1978, Nature, London (5660), v. 273, 300-302
 Trypanosoma brucei brucei, metacyclic forms are heterogeneous with respect to antigen type which they express, reversion to a basic variable antigen type at metacyclic stage in life cycle is not universal

Immunity, Antigenic variation

- Lheureux, M.; et al., 1979, Nucleic Acids Research, v. 7 (3), 595-609
 Trypanosoma brucei brucei, variant-specific surface antigen messenger RNA, immunological purification and partial characterization

Immunity, Antigenic variation

- Nantulya, V. M.; et al., 1979, J. Parasitol., v. 65 (5), 673-679
 Trypanosoma brucei, bovines, evidence for reappearance of variable antigen types in relapse populations

Immunity, Antigenic variation

- Ogilvie, B. M., 1974, Ciba Found. Symp., n.s. (25), 81-100
 Nippostrongylus brasiliensis, antigenic variation, review

Immunity, Antigenic variation

- de Raadt, P., 1974, Ciba Found. Symp., n.s. (20), 199-224
 African trypanosomiasis, immunity and antigenic variation, clinical observations suggestive of immune phenomena, review

Immunity, Antigenic variation

- Reinwald, E.; Risse, H. J.; and Saelker, R., 1978, Hoppe-Seyler's Ztschr. Physiol. Chem., v. 359 (8), 939-944
 Trypanosoma congolense, radio-labelled diazonibenzene-sulfonate as marker for cell surface proteins, results indicate that surface coat is homogeneous layer composed of molecules of one type of protein

Immunity, Antigenic variation

- Seed, J. R., 1978, J. Protozool., v. 25 (4), 526-529
 Trypanosoma brucei gambiense, different antigenic variants compete with each other in vivo (mice) and one clone replaces another, this is a predictable phenomenon even under conditions analogous to chronic infection

- Immunity, Antigenic variation
de Siqueira, A. F.; Ribeiro, R. D.; and Fernandes, L. A. R., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (2), 76-80
Trypanosoma cruzi, antigenic variation in strain isolated from the opossum (Didelphis azarae) as compared with strains from man and a wild dog (Cercopithecus thomasi azarae)
- Immunity, Antigenic variation
Stanley, H. A.; Honigberg, B. M.; and Cunningham, I., 1978, J. Protozool., v. 25 (2), 245-252
Trypanosoma brucei brucei, bloodstream and culture forms, analysis of antigenic composition by quantitative direct fluorescent antibody methods
- Immunity, Antigenic variation
Stanley, H. A.; Honigberg, B. M.; and Cunningham, I., 1979, Ztschr. Parasitenk., v. 58 (2), 141-149
Trypanosoma brucei brucei, mice, antigenic analyses of first-peak parasitemias initiated with culture- and tsetse fly-derived metacyclics, agglutination technique
- Immunity, Antigenic variation
Strickler, J. E.; Mancini, P. E.; and Patton, C. L., 1978, Exper. Parasitol., v. 46 (2), 262-276
Trypanosoma brucei brucei, use of lectin affinity chromatography to isolate major surface coat glycoprotein (variant antigen), further purification by DEAE-cellulose chromatography
- Immunity, Antigenic variation
Van Meirvenne, N.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (1), 25-30
Trypanosoma brucei, comparative study of 2 antigenic-type collections using immunofluorescence and trypanolysis, little or no cross-immunity observed, concluded that these collections are antigenic types of 2 different serodemes
- Immunity, Antigenic variation
Van Meirvenne, N.; Janssens, P. G.; and Magnus, E., 1975, Ann. Soc. Belge Med. Trop., v. 55 (1), 1-23
Trypanosoma brucei, syringe passaged clone populations, 13 antigenic variants, characteristics, relationships to one another, clone populations were heterogeneous mixtures of a major and several minor variant types, suggests that antigenic variation is spontaneous random process
- Immunity, Antigenic variation
Van Meirvenne, N.; Magnus, E.; and Janssens, P. G., 1976, Ann. Soc. Belge Med. Trop., v. 56 (1), 55-63
Trypanosoma brucei rhodesiense, serum-incubation-infectivity-tests on clone populations of distinct antigenic types
- Immunity, Antigenic variation
Van Meirvenne, N.; Magnus, E.; and Vervoort, T., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 409-423
trypanosome strains of subgenus Trypanozoon, comparison of variable antigenic types
- Immunity, Antigenic variation
Vickerman, K., 1974, Ciba Found. Symp., n.s. (25), 53-80
antigenic variation in African trypanosomes, review
- Immunity, Antigenic variation
Vickerman, K., 1978, Nature, London (5664), v. 273, 613-617
antigenic variation in trypanosomes, review
- Immunity, Antigenic variation
Williams, R. O.; et al., 1978, Nucleic Acids Research, v. 5 (9), 3171-3182
Trypanosoma brucei, partial purification and properties of variant specific surface antigen mRNA obtained from a clone, mRNA sequence complexities of antigenically unrelated clones
- Immunity, Antigenic variation
Williams, R. O.; Young, J. R.; and Majiwa, P. A. O., 1979, Nature, London (5741), v. 282, 847-849
Trypanosoma brucei, genomic rearrangements correlated with antigenic variation
- Immunity, Antigenic variation
Woo, P. T. K., 1979, Exper. Parasitol., v. 47 (1), 36-48
Trypanoplasma salmositica, successful in vitro culture and subpassage, course of infection in Salmo gairdneri (exper.), clinical signs (anemia, exophthalmia, abdominal distension with ascites, splenomegaly), diagnosis by wet mount examination more sensitive than hematocrit centrifuge technique, evidence of possible antigenic variation
- Immunity, Antigens. [See also Immunity, Antigenic variation]
- Immunity, Antigens
Afchain, D.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 478-482
Trypanosoma cruzi, preparation of pure specific antigen and corresponding monospecific antiserum using immunoadsorption
- Immunity, Antigens
Afchain, D.; et al., 1979, J. Parasitol., v. 65 (4), 507-514
Trypanosoma cruzi culture forms, antigenic make-up, comparison with salivarian and some other stercorarian trypanosomes and Leishmania using immunoprecipitation in gels and immunoelectrophoresis, identification of component specific to T. cruzi
- Immunity, Antigens
Allen, J. R.; Khalil, H. M.; and Graham, J. E., 1979, Immunology, v. 38 (3), 467-472
Dermacentor andersoni, guinea pigs undergoing primary and secondary infestations, immunofluorescent localization of tick salivary gland antigens, IgG, and complement in skin
- Immunity, Antigens
Allen, J. R.; Khalil, H. M.; and Wikel, S. K., 1979, J. Immunol., v. 122 (2), 563-565
Dermacentor andersoni, Langerhans cells trap tick salivary gland antigens in tick-resistant guinea pigs
- Immunity, Antigens
Alvarez Gomez, L. de las N., 1977, Rev. Cubana Med. Trop., v. 29 (2), 61-65
Giardia lamblia, technique for the preparation of antigen extract from trophozoites and cysts, study of immunoallergic characteristics in experimental animals and normal human controls

Immunity, Antigens

Alves, M. J. M.; et al., 1979, FEBS Letters, v. 99 (1), 81-85

Trypanosoma cruzi epimastigote forms, evidence for plasma membrane localization and antigenic nature of carbohydrate-containing macromolecules

Immunity, Antigens

Amerault, T. E.; Frerichs, W. M.; and Stiller, D., 1979, Am. J. Vet. Research, v. 40 (4), 529-531

Babesia caballi, horses, card test using newly developed antigen evaluated and compared with complement-fixation test

Immunity, Antigens

Andrade, S. G., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (5), 279-284

Trypanosoma cruzi, Peruvian and Colombian strains, failure to demonstrate presence of host antigens on surface of trypomastigote forms from guinea pig blood using immunofluorescence

Immunity, Antigens

Andrade, Z. A.; and Sadigursky, M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 316-318

Schistosoma mansoni, immunofluorescence studies of schistosome structures which share determinants with circulating schistosome antigens (CSA), Ig class of antibodies in patients' serum that attach to sites where CSA determinants are found

Immunity, Antigens

Araujo, F. G., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 433-439

Trypanosoma cruzi, acute infection in mice, circulating antigens capable of reacting against mouse serum in complement fixation and counterimmunoelectrophoresis tests but not in haemagglutination test

Immunity, Antigens

Araujo, F. G.; Nascimento, E.; and Morato, M. J. F., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 534-536

Trypanosoma cruzi, mice, exoantigens, time of appearance, failure to enhance infection, protective effect in immunization

Immunity, Antigens

Araujo, F. G.; and Nunes, R. M. B., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (6), 315-317

Trypanosoma cruzi, 3 strains with differences in antigenic structure, strain F1 always yielded lower titers in immunofluorescent test, use of pool of several strains recommended

Immunity, Antigens

Arnon, R., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 11-23
chemistry of antigenic determinants on protein molecules, colloquium presentation

Immunity, Antigens

Asaishi, K., 1974, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 43 (2), 104-120

Anisakis larvae, analysis of cuticular antigen, application of fluorescent antibody test to histological diagnosis of chronic infection

Immunity, Antigens

Aust-Kettis, A.; and Sundqvist, K. G., 1978, Scand. J. Immunol., v. 7 (1), 35-44

Entamoeba histolytica, distribution and redistribution of antigen determinants and Con A receptors on surface, reappearance of antigen, effect of metabolic inhibitors and pH on ligand induced redistribution, capping and endocytosis in phagocytizing amoebae and influence of inhibitory compounds, variation of expression of surface antigens

Immunity, Antigens

Badr-El-Din, M. K.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (9-10), 194-196

ascariasis in children, function of beta adrenergic receptors evaluated, indicates that ascaris antigens may have beta adrenergic blockade activity

Immunity, Antigens

Banerjee, D. P.; et al., 1978, Trop. Animal Health and Prod., v. 10 (2), 83-86

Anaplasma marginale, cattle, diagnosis, tube agglutination test, use of spleen antigen of infected calf

Immunity, Antigens

Barbet, A. F.; and McGuire, T. C., 1978, Proc. National Acad. Sci., v. 75 (4), 1989-1993

Trypanosoma brucei, T. congolense, crossreacting determinants in variant-specific surface antigens

Immunity, Antigens

Barry, J. D., 1979, J. Cell Sc., v. 37, 287-302

Trypanosoma brucei, capping of variable antigen, immunological and biological significance

Immunity, Antigens

Barry, J. D.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 205-208

Trypanosoma brucei, detection of multiple variable antigen types in metacyclic parasite populations, possible use in diagnosis and vaccination

Immunity, Antigens

Benex, J., 1977, Tech. Immunofluoresc. et React. Immuno-enzymat., 495-502

schistosomes, immunofluorescence as technique for studying antigenic relationships between parasite and host, review

Immunity, Antigens

Ben-Ismaïl, R.; Carme, B.; and Gentilini, M., 1979, Path. Biol., v. 27 (8), 487-489

Fasciola hepatica, F. gigantica, Echinococcus granulosus, detection of blood group antigen P1 activity in extracts, not detected in T[aeenia] saginata extract

Immunity, Antigens

Bennett, C. E., 1978, Parasitology, v. 77 (3), 325-332

Fasciola hepatica, identification of soluble adult antigen on tegumental surface of juveniles

Immunity, Antigens

Billecocq, A.; Benex, J.; and Faure, M., 1979, Compt. Rend. Acad. Sci., Paris, v. 288, s. D, Sc. Nat. (5), 575-578

Schistosoma mansoni, acquisition of phospholipid antigens on surface of schistosomula

Immunity, Antigens

- Bocor, F. N.; Nash, T. E.; and Cheever, A. W., 1979, *J. Immunol.*, v. 122 (1), 39-43
Schistosoma mansoni, isolation of polysaccharide antigen from eggs that differs from antigens previously described, antibodies against this antigen were found in serum of mice with acute and chronic infection

Immunity, Antigens

- Borokova, Z.; Benkova, M.; and German, J., 1978, *Folia Vet.*, v. 19 (3-4), 355-360
Ascaris suum, infective larval phase, use of ultrasound prepared antigen to demonstrate experimental ascariidiosis in migrating phase in unspecific host (rabbit) by complement-fixation reaction

Immunity, Antigens

- Bos, H. J., 1977, *Acta Leidensia*, v. 45, 105-116
Entamoeba histolytica, antigenic composition of axenically cultivated strains, fractionation and serological characterization

Immunity, Antigens

- Bout, D.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (1), 35-38
Schistosoma mansoni, characterization of immunoglobulins and antigens involved in immune complexes

Immunity, Antigens

- Bout, D.; et al., 1978, *Colloque Immun. Parasit. Dis.* (Thierval-Grignon, Sept. 5-9, 1977), 71-85
Schistosoma mansoni, antigens, characterization and purification, colloquium presentation

Immunity, Antigens

- Bout, D.; et al., 1978, *Immunochemistry*, v. 15 (9), 633-638
Schistosoma mansoni, malate dehydrogenase (MDH), purification, immunochemical and biological characterization, mice immunized with purified MDH exhibited significant decrease of worm burden

Immunity, Antigens

- Bronzina, A.; et al., 1977, *Rev. Neurol. Argentina*, v. 3 (3), 483
Trypanosoma cruzi subcellular antigenic fractions, affinity for rat tissue from Auerbach's plexus and from myocardium, brief report

Immunity, Antigens

- Brown, K. N., 1978, *Israel J. Med. Sc.*, v. 14 (5), 571-574
 malaria, factors influencing outcome of infection, antigenic specificity of and protective immunity to asexual erythrocytic parasites, symposium presentation

Immunity, Antigens

- Cambelova, J.; and Mikula, J., 1977, *Ceskoslov. Epidemiol., Mikrobiol., Immunol.*, v. 26 (4), 240-244
Trichinella spiralis, serological diagnosis, quality of antigen prepared by 4 different methods compared

Immunity, Antigens

- Campos Bueno, M.; et al., 1978, *Rev. Iber. Parasitol.*, v. 38 (3-4), 639-648
 cestodes, antigenic fractions (except those of *Taenia saginata* and of *Cysticercus tenuicollis* membranes) with reactivity similar to albumins of human, bovine and ovine sera

Immunity, Antigens

- Carlier, Y.; Bout, D.; and Capron, A., 1978, *Ann. Immunol.*, v. 129C (6), 811-818
Schistosoma mansoni, circulating M antigen, occurrence in human and experimental infections, specificity (cross-reactions with *S. japonicum* and *S. haematobium*), physicochemical properties

Immunity, Antigens

- Carter, C. E.; and Colley, D. G., 1978, *J. Parasitol.*, v. 64 (3), 385-390
Schistosoma mansoni, soluble egg antigen preparation, electrophoretic analysis reveals complex pattern of proteins and glycoproteins, immunoelectrophoretic analysis reveals at least 5 distinct precipitin arcs when developed with serum from mice infected for 16 weeks

Immunity, Antigens

- Carter, C. E.; and Colley, D. G., 1979, *J. Immunol.*, v. 122 (6), 2204-2209
Schistosoma mansoni soluble egg antigen, partial purification and characterization with Con A-Sepharose chromatography

Immunity, Antigens

- de Carvalho, A. B.; Almeida, M. T.; and Magalhaes Filho, A., 1972, *Rev. Soc. Brasil. Med. Trop.*, v. 6 (4), 185-190
Schistosoma mansoni, study of possible influence of antigen source (mouse, human) on diagnostic skin test reactions; skin reactions smaller when human antigen used, persons with allergic conditions had larger reactions

Immunity, Antigens

- Cerisola, J. A.; et al., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (3), 162-166
Trypanosoma cruzi, new amastigote antigen superior to antigen from epimastigotes, indirect immunofluorescence test

Immunity, Antigens

- Chang, S. M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 845-853
Entamoeba histolytica, antigenic analysis of 2 strains (HT-31 and HK-9) by 2-dimensional immunoelectrophoresis, cross-reactions showed large number of shared antigens between strains

Immunity, Antigens

- Cherian, P. V.; and Dusanic, D. G., 1978, *Exper. Parasitol.*, v. 44 (1), 14-25
Trypanosoma lewisi, distribution of surface antigens, movements of surface antigens induced by antibody, endocytosis of antigen-antibody complexes, ultrastructural observations

Immunity, Antigens

- Clayton, C. E., 1978, *Exper. Parasitol.*, v. 44 (2), 202-208
Trypanosoma brucei brucei, mice, influence of host strain and parasite antigenic type on course of infections

Immunity, Antigens

Clegg, J. A., 1974, Ciba Found. Symp., n.s. (25), 161-183

Schistosoma mansoni, evidence for existence of host-like antigens on surface of schistosomes, chemical nature and function of these host antigens, review

Immunity, Antigens

Correia, M. de A.; and Barbosa, W., 1974, Rev. Patol. Trop., v. 3 (2), 171-189

Sera from humans infected with visceral or tegumentary leishmaniasis studied by electrophoresis using heterologous and homologous antigens; homologous antigens were more specific and detected higher titers, false positive reactions occurred only with Leishmania donovani

Immunity, Antigens

Damian, R. T., 1979, Host-Parasite Interfaces, 103-126

molecular mimicry in biological adaptation, host-parasite and other biological relationships, review

Immunity, Antigens

Dandeu, J. P.; and Lux, M., 1978, Immunol. Commun., v. 7 (4), 393-415

Ascaris suum, purification and characterization of 2 proteins from whole worm extract, they are antigenically different but bear common allergenic epitopes, development of new immediate hypersensitivity reaction test

Immunity, Antigens

Davies, C.; et al., 1978, Parasitology, v. 77 (2), 143-152

Echinococcus granulosus, E. multilocularis, ultrastructural immunocytochemical localization of 2 hydatid fluid antigens (antigen 5 and antigen B) in brood capsules and protoscoleces

Immunity, Antigens

Day, K. P.; et al., 1979, Parasite Immunol., v. 1 (3), 217-239

Nippostrongylus brasiliensis vs. Nematosprioides dubius, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses

Immunity, Antigens

Deans, J. A.; Dennis, E. D.; and Cohen, S., 1978, Parasitology, v. 77 (3), 333-344

Plasmodium knowlesi, antigenic analysis of sequential erythrocytic stages using crossed immuno-electrophoresis

Immunity, Antigens

De Carli, G. A.; and Guerrero, J., 1975, Rev. Microbiol., S. Paulo, v. 6 (3), 55-58

Tritrichomonas suis, T. foetus, study of tritrichomonas relationships using indirect immunofluorescence, results suggested presence of antigens that were common to both species

Immunity, Antigens

De Carli, G. A.; and Guerrero, J., 1977, Rev. Microbiol., Sao Paulo, v. 8 (4), 107-109

Tritrichomonas suis, T. foetus, antigenic comparison by immunoelectrophoresis

Immunity, Antigens

Decker-Jackson, J. E.; and Honigberg, B. M., 1978, J. Protozool., v. 25 (4), 514-525

Leishmania donovani, antigenically active glycoproteins released by parasites: immunologic properties and relationships with Mycobacterium antigens and human red cell antigens; preliminary biochemical analysis; possible involvement in pathogenesis of kala azar

Immunity, Antigens

Deelder, A. M.; and Eveleigh, P. C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (2), 178-180

Schistosoma mansoni-infected hamsters, indirect haemagglutination reaction detected circulating anodic antigen in sera and in immune complexes isolated from these sera, but never in sera from human infections

Immunity, Antigens

Deelder, A. M.; Reinders, P. N.; and Rotmans, J. P., 1977, Acta Leidensia, v. 45, 91-103

Schistosoma mansoni, purification of acidic protease, possible use as antigen in serological tests and in development of assay for detection of enzyme as circulating antigen

Immunity, Antigens

Deelder, A. M.; Van Dalen, D. P.; and Van Egmond, J. G., 1978, Exper. Parasitol., v. 44 (2), 216-224

Schistosoma mansoni, microfluorometric determination (using DASS system) of circulating anodic antigen and antigen-antibody complexes in infected hamster serum

Immunity, Antigens

Delachambre, D., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (4), 409-411

Trichomonas vaginalis, comparison of soluble antigens of 2 cultured clones of different age originating from the same strain

Immunity, Antigens

Derooin, F.; et al., 1978, Compt. Rend. Soc. Biol., Paris, v. 172 (2), 388-392

Trypanosoma gambiense, methods for mass preparation of crude antigen and exoantigen from Cricetomys gambianus (exper.)

Immunity, Antigens

Diesfeld, H. J.; and Kirsten, C., 1978, Tropenmed. u. Parasitol., v. 29 (1), 27-32

Dipetalonema viteae eggs, egg membranes, metabolic products, and hatched larvae from uterus, examination of antigenic activity against sera from Wuchereria bancrofti and onchocerciasis patients, indirect immunofluorescence test

Immunity, Antigens

Diesfeld, H. J.; and Kirsten, C., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 533-535

Dipetalonema viteae, antigenic activity in adult worms in the indirect fluorescent antibody test against sera of filariasis patients, search for a 'pure' antigen

Immunity, Antigens

Dobrzanskaia, R. S., 1979, Vestnik Dermat. i Venerol. (6), 56-59

leishmaniasis, human cutaneous, preparation of diagnostic leishmanial antigen based on deep freezing followed by thawing

- Immunity, Antigens**
 Dottorini, S.; and Tassi, C., 1978, *Internat. J. Parasitol.*, v. 8 (4), 259-265
Echinococcus granulosus, comparison between antigens in scolices and hydatid fluid
- Immunity, Antigens**
 Dusanic, D. G., 1979, *Internat. J. Parasitol.*, v. 9 (6), 577-583
Trypanosoma lewisi, rats, *Trypanosoma musculi*, mice, precipitin responses of immune hosts repeatedly infected, antigenic relationships of these 2 trypanosome species, microimmunodiffusion, crossed immunoelectrophoresis (CIE), and tandem CIE analyses
- Immunity, Antigens**
 Dymowska, Z.; Zakrzewska, A.; and Aleksandrowicz, J., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 221-230
Trichinella spiralis, evaluation of antigens obtained by different methods of preparation (ring precipitation test, immunoelectrophoresis, latex test)
- Immunity, Antigens**
 El-On, J.; Schnur, L. F.; and Greenblatt, C. L., 1979, *Exper. Parasitol.*, v. 47 (2), 254-269
Leishmania donovani, excreted factor from promastigotes, physicochemical, immunological, and biological characterization
- Immunity, Antigens**
 Ferrante, A.; and Thong, Y. H., 1979, *Internat. J. Parasitol.*, v. 9 (6), 599-601
Naegleri fowleri, antibody-induced capping and endocytosis of surface antigens, may allow amoeba to resist action of host's immune system
- Immunity, Antigens**
 Ferreira, A. W.; et al., 1979, *J. Helminth.*, v. 53 (3), 189-194
Schistosoma mansoni, immuno-enzymatic assay for detection of antigens in serum of mice harboring bisexual or unisexual light worm infections
- Immunity, Antigens**
 Fruit, J.; et al., 1978, *Exper. Parasitol.*, v. 45 (2), 183-189
Trypanosoma cruzi, location of a specific antigen (antigen 5) on the surface of blood-stream trypomastigote and culture epimastigote forms
- Immunity, Antigens**
 Fujita, K.; Ikeda, T.; and Tsukidate, S., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 60 (2), 121-131
Dirofilaria immitis, highly purified allergen, immunological and physicochemical properties
- Immunity, Antigens**
 Fujita, K.; and Tsukidate, S., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (1), 17-24
Dirofilaria immitis, separation and properties of IgG-inducing antigens
- Immunity, Antigens**
 Furuya, M., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (6), 350-366
Trypanosoma gambiense, mice, immunogenic (protective) activity of antigens prepared from nontreated and trypsin-pretreated living parasites, immune responses in mice immunized with subcellular components of parasites
- Immunity, Antigens**
 Ganguly, N. K.; et al., 1979, *Indian J. Med. Research*, v. 70, 17-21
Entamoeba histolytica, isolation of antigen fraction responsible for delayed hypersensitivity in amoebiasis, macrophage migration inhibition
- Immunity, Antigens**
 Geerts, S.; Kumar, V.; and Aerts, N., 1979, *J. Helminth.*, v. 53 (4), 293-299
Taenia saginata, antigenic components and their relevance to diagnosis of bovine cysticercosis by immunoelectrophoresis
- Immunity, Antigens**
 Gorin, P. A. J.; et al., 1979, *J. Protozool.*, v. 26 (3), 473-478
Crithidia fasciculata, D-mannan and D-arabino-D-galactan, structure, changes in proportion with age of culture
- Immunity, Antigens**
 Gottlieb, M., 1978, *Biochim. et Biophys. Acta*, v. 541 (4), 444-458
Crithidia fasciculata, carbohydrates, further characterization of previously identified mannan, isolation and partial characterization of arabinose- and galactose-containing polysaccharide, immunological evidence suggests cell surface nature of arabinogalactan
- Immunity, Antigens**
 Gottlieb, M., 1978, *Exper. Parasitol.*, v. 45 (2), 200-207
Trypanosoma cruzi, identification of an immunogenic cell surface polysaccharide
- Immunity, Antigens**
 Gravely, S. M.; et al., 1979, *Internat. J. Parasitol.*, v. 9 (6), 591-598
Babesia bovis, morphologic, biologic, and immunologic properties of corpuscular and soluble fractions of parasites purified from in vitro blood cultures
- Immunity, Antigens**
 Guerrero, J.; and Silverman, P. H., 1973, *Rev. Soc. Brasil. Med. Trop.*, v. 7 (5), 319-327
Ascaris suum, isolation of metabolic larval antigens from culture medium using exclusion chromatography
- Immunity, Antigens**
 Guimaraes, M. C. S.; Giovannini, V. L.; and Camargo, M. E., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (4), 182-188
Trypanosoma cruzi, antigenic composition of 2 strains, analytical polyacrylamide-gel electrophoresis, immunoelectrophoresis
- Immunity, Antigens**
 Guimaraes, M. C. S.; Ribeiro, M. T.; and Camargo, M. E., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (3), 182-190
Trypanosoma cruzi, glycoprotein complex extracted from epimastigotes capable of inhibiting immunofluorescence and hemagglutination tests performed with human sera and forming complement fixing immune complexes with both human and hyperimmune sera
- Immunity, Antigens**
 Gomez Priego, A.; Moron Guzman, A.; and Beltran Hernandez, F., 1977, *SPM Salud Pub. Mexico*, v. 19 (3), 421-430
Cysticercus cellulosae, crude antigen, division into antigenic fractions of carbohydrates, proteins and RNA, adequate specificity for immunodiffusion tests

Immunity, Antigens

Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (1-8), 9-47

Fasciola hepatica, structure of 41 antigens, serologic activity in rabbits using 5 tests

Immunity, Antigens

Hall, C. L.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 849-852

Plasmodium falciparum, use of cultured parasites as antigen in standard indirect fluorescent antibody test

Immunity, Antigens

Hamburger, J.; and Zuckerman, A., 1978, *Israel J. Med. Sci.*, v. 14 (5), 557-562

Plasmodium berghei, partial separation of putative species-specific immunobiologically active antigen from soluble extract, symposium presentation

Immunity, Antigens

Harrison, D. J.; Carter, C. E.; and Colley, D. G., 1979, *J. Immunol.*, v. 122 (6), 2210-2217

Schistosoma mansoni soluble egg antigens, immunoaffinity purification, characterization

Immunity, Antigens

Hayunga, E. G.; et al., 1979, *J. Parasitol.*, v. 65 (4), 488-496

Schistosoma mansoni, evaluation of techniques for radioisotope labeling of surface proteins from adult worms, partial characterization of surface antigens

Immunity, Antigens

Hayunga, E. G.; et al., 1979, *J. Parasitol.*, v. 65 (4), 497-506

Schistosoma mansoni, antigenicity of radio-labeled surface proteins from adult worms, immunoprecipitation with infected serum, cross-reaction with anti-*Schistosoma haematobium* and anti-*Schistosoma japonicum* serum

Immunity, Antigens

Hedge, E. C.; Moody, A. H.; and Ridley, D. S., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 445 [Letter]

Leishmania donovani, human, screening of sera for kala-azar using *Crithidia* sp. as antigen in indirect fluorescent antibody test, some positive reactions with *L. tropica*, cross-reactions at low titer with Chagas' disease and African trypanosomiasis

Immunity, Antigens

Hillyer, G. V., 1979, *Exper. Parasitol.*, v. 48 (2), 287-295

Fasciola hepatica, complexity of adult worm antigens, cross-reactivity with sera to *Schistosoma mansoni* and *Schistosoma japonicum*, presence of one common antigen between the two genera, protection of mice immunized with *Fasciola hepatica* antigens to challenge exposure with *Schistosoma mansoni* cercariae

Immunity, Antigens

Hillyer, G. V.; and Cervoni, M., 1978, *J. Immunol. Methods*, v. 20, 385-390

Fasciola hepatica, *Schistosoma mansoni*, purification of specific antigens by means of a combination of Laurell crossed immunoelectrophoresis for immunization using complexed antigen and affinity chromatography with monospecific antibody

Immunity, Antigens

Hillyer, G. V.; Pelley, R. P.; and del Llano de Diaz, A., 1979, *J. Parasitol.*, v. 65 (1), 55-60

Fasciola hepatica, solubilization of antigens which are reactive with anti-*Schistosoma mansoni* antiserum

Immunity, Antigens

Hillyer, G. V.; and Sagramoso de Ateca, L., 1979, *Infect. and Immun.*, v. 26 (3), 802-807

Fasciola hepatica antigens which induce cross-protection against *Schistosoma mansoni*, isolation by concanavalin A affinity chromatography, properties

Immunity, Antigens

Hirata, M., 1976, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 25 (5), 396-401

Schistosoma japonicum-infected mice, appearance of circulating antigen

Immunity, Antigens

Hirata, M.; and Akusawa, M., 1975, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 24 (4), 250-254

Schistosoma japonicum-infected rabbits, circulating antigen, detection and characterization

Immunity, Antigens

Hoshino-Shimizu, S.; et al., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (6), 394-397

Schistosoma mansoni, human kidneys from autopsies, schistosomal antigen, immunoglobulins, complement C₃, and fibrinogen

Immunity, Antigens

Hrzenjak, T.; et al., 1977, *Vet. Arhiv, Zagreb*, v. 47 (6), 317-322

Echinococcus granulosus, polyhexosamine ceramide complex antigen isolated from hydatid fluid: use in quantitative complement fixation test with *Echinococcus*-positive human sera; mice sensitized with this antigen, precipitating antibodies

Immunity, Antigens

Imohiosen, E. A. E.; Sher, A.; and von Lichtenberg, F., 1978, *Parasitology*, v. 76 (3), 317-326

Schistosoma mansoni schistosomula in vitro and in mouse lung, early developmental changes studied from perspective of surface antigenic expression and parasite motility, these changes may play role in determining survival of parasites in normal or immune host

Immunity, Antigens

Kaliraj, P.; Ghirnikar, S. N.; and Harinath, B. C., 1979, *Indian J. Exper. Biol.*, v. 17 (10), 1148-1149

Wuchereria bancrofti, human, circulating filarial antigen, detection, concentration, and identification, countercurrent immunoelectrophoresis, Ouchterlony double diffusion

Immunity, Antigens

Kanbara, H., 1975, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 24 (5), 265-269

Trypanosoma cruzi, amastigote and trypomastigote forms, surface antigen, relationship to virulence

Immunity, Antigens

Kilejian, A., 1978, Science (4359), v. 201, 922-924

Plasmodium lophurae, ducklings, successful immunization with purified and characterized histidine-rich protein as antigen, use of adjuvant is not required for this protective effect and immunity can be passively transferred with serum

Immunity, Antigens

Kocan, K. M.; et al., 1978, Am. J. Vet. Research, v. 39 (7), 1131-1135

Anaplasma marginale Pawhuska isolate, ultrastructural localization of anaplasma antigens with ferritin-conjugated antibody, antigenic sites appear to be outer surface of pellicle, chromatin of initial body, and inclusion appendage

Immunity, Antigens

Kocan, K. M.; Venable, J. H.; and Brock, W. E., 1978, Am. J. Vet. Research, v. 39 (7), 1123-1130

Anaplasma sp. Pawhuska isolate, heifer (exper.), ultrastructure of anaplasma inclusions and their appendages in intact and hemolyzed erythrocytes and in complement-fixation antigen, importance of preparatory treatment in visualization of inclusion bodies

Immunity, Antigens

Kozar, M., 1974, Acta Parasitol. Polon., v. 22 (35-44), 473-483

Fasciola hepatica, rats immunized with *Galba truncatula* or *Lymnaea tomentosa* antigens, subsequently infected with metacercariae from same or different snail species, intensity of infection, liver anatomo-pathological changes, parasite adaptation to snails discussed

Immunity, Antigens

Langreth, S. G.; and Reese, R. T., 1979, J. Exper. Med., v. 150 (5), 1241-1254

Plasmodium falciparum, immunocytochemical localization of antibodies from immune sera on surfaces of infected erythrocytes and of merozoites

Immunity, Antigens

Le Ray, D., 1975, Ann. Soc. Belge Med. Trop., v. 55 (3), 129-311

Trypanosoma brucei, antigenic structures expressed in course of parasite life cycle, immunoelectrophoretic analysis and comparative study with various taxa within the family and phylum, extensive review

Immunity, Antigens

Le Ray, D.; et al., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 369-381

Trypanosoma brucei brucei EATRO 1125-derived AnTat serodeme, first patent blood stream population following fly transmission shown to be markedly heterogeneous and composed of 19 distinct variable antigen types, possible importance to epidemiologic investigations and future prospects for vaccinations

Immunity, Antigens

Luckins, A. G.; and Gray, A. R., 1979, Parasitology, v. 79 (3), 337-347

Trypanosoma congolense, stocks from East and West Africa, antigenicity and serological relationships

Immunity, Antigens

Luffau, G.; and Pery, P., 1978, Vet. Sc. Commun., v. 2 (1), 11-22

nematodes, antigenic structure as related to vaccination of animals, review; *Nippostrongylus brasiliensis*, rats, vaccination using live and killed worms

Immunity, Antigens

Machnicka-Roguska, B., 1970, Acta Parasitol. Polon., v. 18 (13-26), 267-276

Moniezia expansa antigens, isolation and chemical analysis

Immunity, Antigens

Magat, W. J.; and Jeska, E. L., 1976, Acta Parasitol. Polon., v. 24 (11-19), 191-198

Trichinella spiralis, partially purified antigenic fraction from muscle larvae which detects hemagglutinin and precipitin antibodies in infection sera of rats, rabbits, and swine up to one year after single infection

Immunity, Antigens

Marcipar, A.; et al., 1979, IRCS J. Med. Sc., v. 7 (4), 178

Trypanosoma cruzi, immobilized antigens (using polyamide as immunoadsorbent matrix) in indirect enzyme antibody linked method, possible application in diagnosis and antibody isolation

Immunity, Antigens

Marcoullis, G.; Salonen, E. M.; and Graesbeck, R., 1978, Tropenmed. u. Parasitol., v. 29 (1), 39-48

Onchocerca volvulus, antigens extracted from adult worms, purification and partial characterization, successful use in enzyme-linked immunosorbent assay

Immunity, Antigens

Marlet, J. M., 1978, Rev. Saude Pub., S. Paulo, v. 12 (1), 23-25

human cysticercosis, description of new antigen used for a cutaneous diagnostic test, antigen is considered specific, sensitive and easy to use, suggested as test of choice for epidemiologic studies

Immunity, Antigens

Matsuda, H.; et al., 1977, Japan. J. Exper. Med., v. 47 (5), 369-375

Schistosoma japonicum, humans, diagnosis, improved procedures for circumoval precipitin test and for preparing egg antigen, comparative study on test reading techniques, highly sensitive for mass examination in endemic areas: Leyte

Immunity, Antigens

Mayrink, W.; et al., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (1), 50-55

kala-azar patient serum gives positive reactions in complement fixation reaction using BCG antigen, purification of BCG antigenic fractions related to *Leishmania donovani*

Immunity, Antigens

Mendes, N. F.; et al., 1979, Transplant. Proc., v. 11 (2), 1304-1305

cross-reactions between *Trypanosomatidae* cell extracts and HLA antigens

Immunity, Antigens

Musiani, P.; et al., 1978, J. Clin. Path., v. 31 (5), 475-478

Echinococcus granulosus, concentration of antigens 4 and 5 in hydatid cyst fluids from various organs and various animal species, standardization of antigenic material for immunodiagnosis of hydatid disease

Immunity, Antigens

Nash, T. E., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 939-943

Schistosoma spp., human, specific IgM and IgG antibody response to polysaccharide antigen present in schistosome gut, indirect immunofluorescent technique, easily performed reliable diagnostic test with high sensitivity and specificity

Immunity, Antigens

Neilson, J. T. M., 1978, Exper. Parasitol., v. 44 (2), 225-232

Dipetalonema viteae, somatic extracts of adult worms and microfilariae, isoelectric focusing and immunochemical studies

Immunity, Antigens

Nikolaenko, G. V.; Zharikov, I. S.; and Luchko, V. P., 1977, Vet. Nauka--Proizvod., Trudy, Minsk, v. 15, 90-93

[Paramphistomatidae], antigen, preparation, analysis of components by disc electrophoresis with and without previous ultrasonic treatment; experimental immunization of rabbits

Immunity, Antigens

Novoselska, L. I., 1978, Dokl. Bolgar. Akad. Nauk, v. 31 (3), 353-356

Trichinella larvae (intact larvae vs. cryostat sections in guinea pig muscle), desorption of antigens, immunofluorescent studies of cuticle

Immunity, Antigens

O'Donnell, I. J.; and Mitchell, G. F., 1978, Austral. J. Biol. Sc., v. 31 (5), 459-487

Ascaris lumbricoides (var. suum), humans, mice, allergens investigated using radio-allergosorbent test and passive cutaneous anaphylaxis test, cross-reactions with other helminths, some biochemical and immunobiological properties of allergens

Immunity, Antigens

Ohno, S.; O'Connor, G. R.; and Kimura, S. J., 1977, Tohoku J. Exper. Med., v. 123 (1), 91-94

Toxoplasma gondii, human toxoplasmic retinochoroiditis, determination of human leucocyte-A antigens, no significant difference in infected vs. non-infected persons

Immunity, Antigens

Parker, R.; Parker, M. L.; and Wilson, A. J., 1978, Research Vet. Sc., v. 25 (3), 401-402

Anaplasma marginale complement fixation test antigens, liquid nitrogen storage by a multiple small aliquot technique

Immunity, Antigens

Pellegrino, J.; Pereira, L. H.; and Furtado, T. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 393-396

mucocutaneous leishmaniasis, human, greater sensitivity to skin test using crude extract of Leishmania braziliensis than to promastigote suspension used as antigen

Immunity, Antigens

Pelley, R. P.; and Hillyer, G. V., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1192-1194

Schistosoma mansoni, Fasciola hepatica, demonstration of common antigen

Immunity, Antigens

Pereira, N. M.; et al., 1978, Exper. Parasitol., v. 46 (2), 225-234

Trypanosoma cruzi, membrane and flagellar fractions, isolation and characterization: electron microscopy; enzyme composition; gel immunodiffusion test

Immunity, Antigens

Pery, P., 1978, Colloque Immun. Parasit. Dis.

(Thierval-Grignon, Sept. 5-9, 1977), 275-290 potential protective parasite antigens, evaluation by studying interactions with known binding molecules which allow rapid purification, implications for possible development of non-living vaccines, colloquium presentation

Immunity, Antigens

Pery, P.; and Luffau, G., 1979, Antigens (Sela), v. 5, 83-172

antigens of helminths, extensive review: immunity to helminths; pathophysiology of antigens; immunodiagnosis and immunoprevention

Immunity, Antigens

Petavy, A. F.; et al., 1978, Avian Path., v. 7 (4), 533-540

Syngamus trachea, antigenic structure studied by gel electrophoresis and by immunoelectrophoresis including staining for enzyme activity, cross-reactions with Trichinella spiralis and Ascaris lumbricoides

Immunity, Antigens

Petrovic, M.; and Deedler, A. M., 1979, Period. Biol., v. 81 (2), 513-515

Fasciola hepatica, immunodiagnosis, application of Defined Antigen Substrate Spheres system to immunofluorescence and immunohistochemical reactions, cross-reactivity with Schistosoma mansoni

Immunity, Antigens

Pinchuk, V. A., 1970, Parazitologiya, Leningrad, v. 4 (6), 557-562

Echinococcus granulosus, hydatid cyst fluid, antigenic analysis reveals parasite-specific components and components common to various helminths and to the intermediate host

Immunity, Antigens

Poels, L. G.; van Niekerk, C. C.; and Franken, M. A. M., 1978, Israel J. Med. Sc., v. 14 (5), 575-581

Plasmodium berghei, mice, immunization, possible role of plasmodial antigens exposed on surface of infected reticulocytes in induction of protective immunity, observations on entry of parasites into red blood cells, symposium presentation

Immunity, Antigens

Pozzuoli, R.; et al., 1976, Recent Prog. Med., v. 60 (6), 625-638

Echinococcus granulosus, humans, comparative evaluation of immunoserological diagnostic methods, review

Immunity, Antigens

- Purohit, S. K.; and Jatkar, P. R., 1979, Indian Vet. J., v. 56 (2), 91-94
Trypanosoma evansi, antigenic analysis

Immunity, Antigens

- de Raadt, P., 1974, Ciba Found. Symp., n.s. (20), 199-224

African trypanosomiasis, immunity and antigenic variation, clinical observations suggestive of immune phenomena, review

Immunity, Antigens

- Razzakov, Sh. A., 1976, Med. Parazitol. i Parazitar. Bolezni, v. 45 (2), 148-152
echinococcal or alveococcal antigen-antibody complexes used to immunize rabbits, resulting sera with narrow specificity, useful for immunochemical analysis of echinococcal or alveococcal antigens

Immunity, Antigens

- Renwanz, L.; and Schottelius, J., 1977, Ztschr. Parasitenk., v. 54 (2), 139-147
Trypanosoma brucei EATRO 427, characterization of surface membrane with lectins, protectins, and blood group antisera

Immunity, Antigens

- Rizk, G. R.; et al., 1978, Egypt. J. Bilharz., v. 4 (1), 1977, 53-62
Schistosoma mansoni, immunoelectrophoretic cross-reactions between antigens of different life cycle stages

Immunity, Antigens

- Rizk, G. R.; et al., 1978, Egypt. J. Bilharz., v. 4 (1), 1977, 63-68
Schistosoma mansoni infected and non-infected Biomphalaria glabrata and B. alexandrina, immunoelectrophoretic cross-reactions between hepatopancreas antigens

Immunity, Antigens

- Rodriguez, O. N.; et al., 1975, Folia Vet., v. 19 (1-2), 249-255
Anaplasma marginale, Paraplasma caudata, antigenic differences determined by passive hemagglutination and hemagglutination inhibition test

Immunity, Antigens

- Roffi, C.; et al., 1979, Med. Trop., v. 39 (6), 637-641
African trypanosomiasis, immunoenzymatic diagnosis comparing purified exoantigen and 5 crude extracts from strains of Trypanosoma b. brucei and T. b. gambiense; best sensitivity obtained with virulent strains of human origin

Immunity, Antigens

- Rotmans, J. P., 1978, Exper. Parasitol., v. 46 (1), 49-58
Schistosoma mansoni, antigenic characterization of malate dehydrogenase isoenzymes by immunoelectrophoresis, malate dehydrogenase antigens in S. mansoni, S. haematobium, and S. bovis are immunologically indistinguishable, attempted use of these antigens in defined antigen substrate spheres system, not sensitive enough for immunodiagnosis

Immunity, Antigens

- Rovis, L.; Barbet, A. F.; and Williams, R. O., 1978, Nature, London (5646), v. 271, 654-656
Trypanosoma congolense, characterization of surface coat, single specific glycoprotein as surface antigen, overall similarities with surface coat of T. brucei

Immunity, Antigens

- Saf'ianova, V. M.; Aliev, E. I.; and Koshelev, B. A., 1972, Parazitologiya, Leningrad, v. 6 (3), 206-215
Leishmania adleri, virulence for Cricetus auratus increases with successive passage, ultrastructure of leptomonad stage and characteristics of localization of specific antigens, antigenic comparison with Leishmania of mammals and leptomonads of reptiles

Immunity, Antigens

- Santoro, F.; et al., 1978, Clin. and Exper. Immunol., v. 32 (3), 435-442
Schistosoma mansoni-infected rats, detection of circulating schistosome antigens (CSA) and circulating immune complexes (CIC), possible role played by CIC in protective mechanisms to challenge infection

Immunity, Antigens

- Santoro, F.; Liebart, M. C.; and Capron, A., 1978, Protides Biol. Fluids, v. 26, 215-218
Schistosoma mansoni, human, circulating antigens, antibodies, and immune complexes in milk from infected mothers

Immunity, Antigens

- Santoro, F.; Vandemeulebroucke, B.; and Capron, A., 1979, Exper. Parasitol., v. 47 (3), 392-402
Schistosoma mansoni-infected mice, circulating antigens and immune complexes

Immunity, Antigens

- Scapin, M.; and Tendler, M., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (2), 91-93
[Schistosoma] mansoni, extraction of 3 antigenic fractions from adult worms using KCl; fractions used for immunodiagnostic study by electrophoresis

Immunity, Antigens

- Schmidt-Ullrich, R.; and Wallach, D. F. H., 1978, Proc. National Acad. Sci., v. 75 (10), 4949-4953
Plasmodium knowlesi in Macaca mulatta, parasite-induced antigens in membranes of parasitized erythrocytes, possible relevance to development of antimalarial vaccines

Immunity, Antigens

- Schmidt-Ullrich, R.; Wallach, D. F. H.; and Lightholder, J., 1979, J. Exper. Med., v. 150 (1), 86-99
Plasmodium knowlesi, 2 parasite-specific antigens on surface of schizont-infected Macaca mulatta erythrocytes induce antibody production in immune hosts

Immunity, Antigens

- Semprevivo, L. H., 1978, Proc. Soc. Exper. Biol. and Med., v. 159 (1), 105-110
Leishmania donovani promastigotes, exometabolites, isolation and initial characterization

Immunity, Antigens

Senft, A. W.; et al., 1979, *Parasite Immunol.*, v. 1 (1), 79-89

Schistosoma mansoni, *Schistosoma haematobium*, species-specificity of immediate hypersensitivity to schistosomal proteolytic enzyme (mouse mast cell degranulation and monkey skin tests)

Immunity, Antigens

Shaker, Z. A.; et al., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 221-232

Schistosoma mansoni, *S. haematobium*, humans, demonstration of circulating bilharzial antigens using indirect haemagglutination and complement fixation techniques, correlation between % of positive cases and host age, duration of infection, clinical presentation, schistosome species, intradermal test results, and effect of chemotherapy

Immunity, Antigens

Shakespeare, P. G.; Trigg, P. I.; and Tappen-den, L., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 333-343

Plasmodium knowlesi, surface properties of normal rhesus monkey erythrocytes and of infected erythrocytes, externally disposed protein used as probes of surface changes, pigment-free preparation of membrane proteins obtained, possible application in preparing specific antigens

Immunity, Antigens

Shoeb, S. M.; et al., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 169-182

Schistosoma mansoni-infected mice, attempted immunization using metabolic and somatic antigens prepared from eggs, cercariae and adult worms, assessment of results based on presence of immunoglobulins and histopathologic findings; adult worm antigens gave best results with reduced worm load, delayed ovulation and reduced ova in liver tissues and in stools

Immunity, Antigens

Shoeb, S. M.; et al., 1977, *Egypt. J. Bilharz.*, v. 4 (2), 141-148

bilharziasis, humans, diagnosis using fractionated *Fasciola gigantica* antigens for intradermal test vs. homologous *Schistosoma mansoni* antigen

Immunity, Antigens

Siddiqui, W. A.; Kramer, K.; and Richard-Crum, S. M., 1978, *J. Parasitol.*, v. 64 (1), 168-169
Plasmodium falciparum, in vitro cultivation and partial purification of antigen suitable for vaccination studies in Aotus monkeys

Immunity, Antigens

da Silveira, J. F.; Abrahamsohn, P. A.; and Colli, W., 1979, *Biochim. et Biophys. Acta*, v. 550 (2), 222-232

Trypanosoma cruzi epimastigotes, method of isolation of plasma membrane vesicles, general analysis of their properties, protein and carbohydrate content, antigenicity

Immunity, Antigens

de Siqueira, A. F.; Ferriolli Filho, F.; and Ribeiro, R. D., 1979, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 12 (1), 75-79

Trypanosoma cruzi-infected rats, early immune reactions suggest relationship between circulation of antigens, formation of antigen-antibody complexes, and the fixation of complement by these complexes

Immunity, Antigens

Slutzky, G. M.; El-On, J.; and Greenblatt, C. L., 1979, *Infect. and Immun.*, v. 26 (3), 916-924

Leishmania tropica, *L. donovani*, leishmanial excreted factor, protein-bound and free forms from promastigote cultures, improved method for isolation

Immunity, Antigens

Smith, H. V.; and Kusel, J. R., 1979, *Clin. and Exper. Immunol.*, v. 36 (3), 430-435

Schistosoma mansoni, acquisition of antigens in intracellular substance of mouse skin by schistosomula

Immunity, Antigens

Smith, H. V.; and Tonkin, C. H., 1979, *Research Vet. Sc.*, v. 26 (3), 302-307

Hyostrogylus rubidus, antigens prepared from various developmental stages and fractionation of adult worms, activity and usefulness as aid to serodiagnosis by passive haemagglutination and skin hypersensitivity reactions

Immunity, Antigens

Smithers, S. R.; and Ramalho-Pinto, F. J., 1978, *Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977)*, 39-49

Schistosoma mansoni, concomitant immunity, response of host to schistosomal surface antigens, colloquium presentation

Immunity, Antigens

Snary, D.; and Hudson, L.; 1979, *FEBS Letters*, v. 100 (1), 166-170

Trypanosoma cruzi cell surface proteins: identification of one major glycoprotein

Immunity, Antigens

Spencer, H. C.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 927-932

malaria, human sera, micro enzyme-linked immunosorbent assay used with in vitro-cultured *Plasmodium falciparum* as antigen

Immunity, Antigens

Stanley, H. A.; Honigberg, B. M.; and Cunningham, I., 1978, *J. Protozool.*, v. 25 (2), 245-252

Trypanosoma brucei, bloodstream and culture forms, analysis of antigenic composition by quantitative direct fluorescent antibody methods

Immunity, Antigens

Stanley, H. A.; Honigberg, B. M.; and Cunningham, I., 1979, *Ztschr. Parasitenk.*, v. 58 (2), 141-149

Trypanosoma brucei brucei, mice, antigenic analyses of first-peak parasitemias initiated with culture- and tsetse fly-derived metacyclics, agglutination technique

Immunity, Antigens

Strejan, G. H., 1978, *Immunol. Series*, v. 7, 693-735

Ascaris suum, crude extract (preparation, toxic manifestations, mast-cell degranulating peptide, production and detection of reaginic antibodies), allergen (purification and properties, allergens released during active infection), brief remarks on allergens of other nematodes, review

Immunity, Antigens

Strickler, J. E.; Mancini, P. E.; and Patton, C. L., 1978, *Exper. Parasitol.*, v. 46 (2), 262-276

Trypanosoma brucei brucei, use of lectin affinity chromatography to isolate major surface coat glycoprotein (variant antigen), further purification by DEAE-cellulose chromatography

Immunity, Antigens

Stromberg, B. E., 1979, *Internat. J. Parasitol.*, v. 9 (4), 307-311

Ascaris suum, protective antigen from developing larvae, isolation and partial characterization

Immunity, Antigens

Stromberg, B. E., 1979, *Immunology*, v. 38 (3), 489-495

Ascaris suum, new allergen (ACF antigen) obtained from developing larvae maintained in chemically defined culture medium, production of IgE and IgG1 antibodies in guinea-pigs, importance of route of administration

Immunity, Antigens

Sukhdeo, M. V. K.; and Meerovitch, E., 1979, *Internat. J. Parasitol.*, v. 9 (6), 571-576

Trichinella, 3 geographic isolates (Alaska, Canada, Kenya), comparison of antigenic characteristics, possible taxonomic implications

Immunity, Antigens

Sullivan, T. J.; Parker, K. L.; and Parker, C. W., 1973, *Research Commun. Chem. Path. and Pharmacol.*, v. 6 (2), 709-717

Dirofilaria immitis incubated in dog blood, ability of antibody-enzyme conjugates to specifically kill microfilariae, conjugates shown to attach to parasite surfaces, attachment inhibited by soluble *D. immitis* antigens indicating that immunologically specific reaction involved

Immunity, Antigens

Takaoka, M.; and Tanaka, H., 1975, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 24 (5), 255-264

Litomosoides carinii, excretory/secretory and somatic antigens studied in double diffusion, immunoelectrophoresis, complement fixation, and indirect hemagglutination tests using serum from infected cotton rats and immunized rabbits, cross-reactions with serum from *Dirofilaria immitis*-infected dogs in double diffusion test

Immunity, Antigens

Terziiski, A.; Baicheva, O.; and Dragneva, N., 1977, *Khelmintologiya, Sofia*, v. 4, 68-72

Ascaris suum, no antigenic similarity with *Ditylenchus dipsaci*, negative cross-reactions, cross intracutaneous test

Immunity, Antigens

Thompson, K. C.; Todorovic, R. A.; and Hidalgo, R. J., 1978, *Research Vet. Sc.*, v. 24 (2), 234-237

Babesia bigemina, immune response of calves to acute and chronic blood- and tick-borne infections with 4 stabilates, reduced immune response to homologous challenge but marked response to heterologous challenge indicated antigenic differences between isolates

Immunity, Antigens

Tompel, Kh. Ia.; and Teras, Iu. Kh., 1978, *Veterinariia, Moskva* (9), 96-98

Tritrichomonas foetus, strain differences in antigenic properties tested in rabbits

Immunity, Antigens

Torres, P.; and Barriga, O. O., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 441-451

Ascaris suum, *A. lumbricoides*, *Toxocara mystax*, *A. galli*, adult specimens, common and species-specific antigens, antigenic composition of different sexes within each species

Immunity, Antigens

Tos-Luty, S., 1971, *Acta Parasitol. Polon.*, v. 19 (9-18), 205-225

Toxoplasma gondii tissue antigens more sensitive than exudate-antigens in complement fixation test using human, rat, and rabbit sera

Immunity, Antigens

Trangle, K. L.; et al., 1979, *Parasite Immunol.*, v. 1 (2), 133-140

Schistosoma mansoni, *S. haematobium*, school children, prevalence and severity of infection in relation to blood group type and ability to secrete blood group antigens: Swaziland

Immunity, Antigens

Tryon, J. C., 1979, *Exper. Parasitol.*, v. 48 (2), 198-205

Toxoplasma gondii, purified tachyzoite pellicle, ultrastructure and antigenicity

Immunity, Antigens

Uakhovithchai, V.; Techasoponmani, R.; and Sirisinha, S., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (4), 486-493

Angiostrongylus cantonensis, rats, immunization with excretory/secretory antigens of male vs. female worms, effect on subsequent infection by infective 3rd stage larvae

Immunity, Antigens

Vadas, M. A.; et al., 1979, *Proc. National Acad. Sc.*, v. 76 (4), 1982-1985

Schistosoma mansoni, major histocompatibility complex products restrict adherence of cytolytic T lymphocytes to minor histocompatibility antigens or to trinitrophenyl determinants on schistosomula

Immunity, Antigens

Van Marck, E., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (4), 373-377

Schistosoma mansoni-infected mice, presence of circulating polysaccharide schistosomal antigen in Kupffer cells demonstrated by immunofluorescence

Immunity, Antigens

Veprekova, A.; Pekarek, J.; and Rozprimova, L., 1978, *J. Hyg., Epidemiol., Microbiol. and Immunol.*, v. 22 (1), 53-56

Toxoplasma gondii, failure to detect mouse species-specific antigens in highly purified *Toxoplasmin*

Immunity, Antigens

Viyanant, V.; and Jones, A. W., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 79-85

Trypanosoma lewisi, surface membrane antigen, isolation and characterization, protection of immunized rats against challenge

Immunity, Antigens

Warren, K. S., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 25-38

Schistosoma mansoni, *Trichinella spiralis*, biology of natural infections within mammalian host, antigens produced by different parasite stages, host immunological responses to these antigens in vivo and in vitro, consequences to host in terms of both immunity and immunopathology, colloquium presentation

Immunity, Antigens

Welch, J. S.; and Dobson, C., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 282-288

4 nematode spp. in natural and zoonotic hosts and in immunized rabbits, immunodiagnosis, comparative efficacy of 3 immunofluorescence tests using antigens purified by affinity chromatography

Immunity, Antigens

Willadsen, P.; et al., 1978, Internat. J. Parasitol., v. 8 (2), 89-95

Boophilus microplus, partial purification of allergen 2, allergens 1 and 2 tested on cattle for relationships between tick resistance, immediate hypersensitivity reactions, reaginic antibody levels as measured by Prausnitz-Kustner type reactions, and serum levels of agglutinating antibody

Immunity, Antigens

Willadsen, P.; and Riding, G. A., 1979, Biochem. J., v. 177 (1), 41-47

Boophilus microplus, proteolytic-enzyme inhibitor with allergenic activity, purification and partial characterization

Immunity, Antigens

Wilson, R. J. M., 1974, Ciba Found. Symp., n.s. (25), 185-203

soluble parasite antigens, possible modes of interference with immune response, review

Immunity, Antigens

Wilson, R. J. M., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 87-101

circulating antigens of parasites, source, nature, fate, and possible effects on immune response, colloquium presentation

Immunity, Antigens

Yong, W. K.; and Heath, D. D., 1979, Parasite Immunol., v. 1 (1), 27-38

Echinococcus granulosus-, *Taenia hydatigena*-, and *T. ovis*-infected sheep, immunoelectrophoretic (IEP) identification of 'arc 5' antibodies in sera; antigen similar to 'arc 5' antigen of *E. granulosus* cyst fluid demonstrated in *T. hydatigena* cyst fluid but not positively identified in *T. ovis* cyst fluid; evaluation of performance of IEP

Immunity, Antigens

Yong, W. K.; Heath, D. D.; and Savage, T., 1979, Brit. Med. J. (6176), v. 1, 1463-1464
Echinococcus granulosus, man with positive immunoelectrophoresis test for hydatidosis, later diagnosed as pulmonary carcinoma, possible antigenic similarity: New Zealand

Immunity, Antigens

Yoshihara, S.; et al., 1979, Japan. J. Vet. Sci., v. 41 (3), 227-233

Fasciola sp., production of specific antisera against antigens isolated from agar-gel plates, use of these antisera in fluorescent antibody studies on distribution of antigens in adult flukes

Immunity, Antigens

Zapart, W., 1970, Acta Parasitol. Polon., v. 18 (1-12), 7-23

Ascaris suum, guinea pigs, rabbits, complement fixation test, ring precipitation test, comparison of results using whole antigen vs. antigens fractionated by 2 different methods

Immunity, Antigens

Zapart, W., 1970, Acta Parasitol. Polon., v. 18 (13-26), 209-220

Ascaris suum, evaluation of 5 antigens prepared by different methods of fractionation (agar-gel precipitation, immunoelectrophoresis, complement fixation, and ring precipitation tests), chromatography and chemical analysis of different antigens

Immunity, Antigens

Zorzopulos, J.; Reich, C. I.; and Galassi, N., 1978, Exper. Parasitol., v. 45 (1), 128-138

Boophilus microplus, characterization of larval phosphomonoesterases, isolation of subcellular fractions with high phosphatase activity, antigenic analysis

Immunity, Antigens

Zyngier, F. R., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (3), 181-183

Toxocara canis, *Ascaris suum*, comparison of antigenic extracts

Immunity, Autoimmunity

Berthoud, S.; et al., 1974, Virchows Arch. A, Path. Anat. and Histol., v. 364 (3), 285-296

liver schistosomiasis, human, association with primary biliary cirrhosis, occurrence of antimitochondrial antibodies, case report

Immunity, Autoimmunity

de Castro, P. C. J.; and Luz, E., 1978, Arq. Biol. e Tecn., v. 21 (1), 25-50

Trypanosoma cruzi, patients with chronic Chagasic cardiopathy, presence of anti-myocardium antibody in sera

Immunity, Autoimmunity

Danno, K.; Fukuyama, K.; and Epstein, W. L., 1979, Lab. Invest., v. 40 (3), 358-363

Schistosoma mansoni, infection induces T-cell-independent autoantibody (antinuclear antibody) in athymic mice and T-cell-dependent antischistosome antibodies in thymus-intact mice, both types of antibodies deposit in kidneys as immunocomplexes

- Immunity, Autoimmunity
Dhar, S.; and Gautam, O. P., 1979, Indian J. Animal Sc., v. 49 (2), 122-126
Theileria annulata, calves (exper.), anemia produced by excessive removal of erythrocytes from circulation by phagocytes, involvement of auto-immune mechanism
- Immunity, Autoimmunity
Faubert, G. M.; Meerovitch, E.; and McLaughlin, J., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 892-896
Entamoeba histolytica, liver auto-antibodies in sera from both naturally infected humans and immunized rabbits
- Immunity, Autoimmunity
Fujisaki, K.; et al., 1979, Japan. J. Vet. Sc., Tokyo, v. 41 (4), 385-390
Leucocytozoon caulleryi, chickens, auto-cold hemagglutinin in plasma
- Immunity, Autoimmunity
Gobzem, M. P.; and Slepnev, N. K., 1975, Vet. Nauka--Proizvod., Trudy, Minsk, v. 13, 117-120
echinococcosis, experimental infection of calves, lambs, and piglets with swine and ovine strains, possibility of autoimmune aspects of pathogenesis
- Immunity, Autoimmunity
Greenwood, B. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 378-385
Plasmodium falciparum, children, no evidence that any of several immunological factors investigated plays important role in pathogenesis of anemia
- Immunity, Autoimmunity
Jayawardena, A. N.; Janeway, C. A., jr.; and Kemp, J. D., 1979, J. Immunol., v. 123 (6), 2532-2539
Plasmodium yoelii in intact and T cell-deprived mice carrying CBA/N X chromosome, course of infection, specific fluorescent antibody levels, anti-erythrocyte autoantibody responses; effect of CBA/N X chromosome on secondary responses
- Immunity, Autoimmunity
Khoury, E. L.; et al., 1979, Clin. and Exper. Immunol., v. 36 (1), 8-15
T[rypanosoma] cruzi, human, presence of circulating antibodies to peripheral nerve, significant association with EVI antibodies, possible role in pathogenesis of Chagas' disease
- Immunity, Autoimmunity
Kobayakawa, T.; et al., 1979, J. Immunol., v. 122 (1), 296-301
Trypanosoma brucei brucei, mice, polyclonal B cell activation, not dependent on influence of T cells, unlikely that lipopolysaccharides of endogenous gram-negative bacteria play role, autoimmune responses to DNA, red blood cells, and thymocyte antigens were observed in association with polyclonal antibody synthesis
- Immunity, Autoimmunity
Lindsley, H. B.; Nagle, R. B.; and Stechschulte, D. J., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 864-872
Trypanosoma rhodesiense-infected rats, proliferative glomerulonephritis, hypocomplementemia, nucleic acid antibodies, feasibility of rat as model host
- Immunity, Autoimmunity
Louis, J.; et al., 1978, Pharmacol. Immunoreg., 225-238
Trypanosoma brucei, mice, strong polyclonal B cell activation, appearance of autoantibodies with various specificities
- Immunity, Autoimmunity
Marshall-Clarke, S.; and Playfair, J. H. L., 1979, Immunol. Rev., v. 43, 109-141
B cells: subpopulations, tolerance, autoimmunity, and infection, review including some discussion of Schistosoma mansoni and malaria
- Immunity, Autoimmunity
Poels, L. G.; van Niekerk, C. C.; and Jerusalem, C., 1978, Israel J. Med. Sc., v. 14 (6), 651-654
Plasmodium berghei, mice, formation of two types of immune complex (one with and one lacking plasmodial antigens) and their deposition in renal glomeruli, immune complexes lacking parasite antigen may be involved in secondary autoimmune (anti-smooth muscle) process, possible induction mechanism of autoantibodies, symposium presentation
- Immunity, Autoimmunity
Ribeiro dos Santos, R.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (1), 19-23
T[rypanosoma] cruzi-infected humans, presence of IgG and IgM antibodies to neurons demonstrated by immunofluorescence
- Immunity, Autoimmunity
Rickman, W. J.; and Cox, H. W., 1979, J. Parasitol., v. 65 (1), 65-73
Trypanosoma brucei rhodesiense-infected rats, syndrome characterized by anemia, splenomegaly, and glomerulonephritis, accompanied by presence of 3 autoantibodies and by presence of fixed complement and fibrinogen on trypanosomes and erythrocytes
- Immunity, Autoimmunity
Ritacco, V.; et al., 1977, Rev. Neurol. Argentina, v. 3 (3), 443-447
T[rypanosoma] cruzi, human, description of human serum gamma globulin factor associated with antibody against peripheral nerves
- Immunity, Autoimmunity
Rosenberg, Y. J., 1978, Nature, London (5667), v. 274, 170-172
Plasmodium berghei yoelii, mice, plaque-forming cell assays used to reveal pattern of both total and antigen-specific splenic B lymphocyte activation and to define anti-erythrocytic autoimmune response, both responses shown to be T-cell dependent
- Immunity, Autoimmunity
dos Santos, R. R.; and Marquez, J. O., 1977, Rev. Neurol. Argentina, v. 3 (3), 439-442
T[rypanosoma] cruzi, human, physiopathology of neuronal destruction, presence of IgG and IgM antibodies to neurons discovered in human serum, sequence of pathologic events detailed in infected mice
- Immunity, Autoimmunity
Santos-Buch, C. A., 1977, Immunopathol., 7. Internat. Symp. (Bad Schachen, Germany, June 14-19, 1976), 205-220
Trypanosoma cruzi, role of immune reactions in pathogenesis of Chagas' disease, review

- Immunity, Autoimmunity
Schmunis, G. A.; et al., 1978, J. Infect. Dis., v. 138 (3), 401-404
Trypanosoma cruzi, persistence of tissue-reacting (EVI) antibodies in nifurtimox-treated patients followed for several months to 2 years, implications for significance of EVI antibodies in pathogenesis of Chagas disease
- Immunity, Autoimmunity
Shear, H. L.; Nussenzweig, R. S.; and Bianco, C., 1979, J. Exper. Med., v. 149 (6), 1288-1298
Plasmodium berghei-infected mice, phagocytosis of erythrocytes by spleen macrophages appears to be mediated by Ig on surface; other indications of spleen macrophage activation; phagocytosis is inhibited later in infection by serum factors possibly immune complexes; high levels of anti-Forssman antibodies
- Immunity, Autoimmunity
Szarfman, A.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 832-834
Trypanosoma cruzi, rhesus monkey infected for 29 years, detection of tissue-reacting antibodies similar to those described in human Chagas' disease
- Immunity, Autoimmunity
Teixeira, A. R. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1097-1107
Chagas' disease, serum antibody titers, delayed skin response, inhibition of leukocyte migration by Trypanosoma cruzi antigen and by cross-reactive heart cell antigen, cytotoxicity of sensitized T-lymphocytes to parasitized human heart cells
- Immunity, Autoimmunity
Thoongsuwan, S.; and Cox, H. W., 1978, J. Parasitol., v. 64 (4), 669-673
Trypanosoma lewisi, ATC strain in Sprague-Dawley rats, anemia, splenomegaly, and glomerulonephritis accompanied by presence of cold-active hemagglutinin for trypsinized rat erythrocytes
- Immunity, Autoimmunity
Thoongsuwan, S.; Cox, H. W.; and Patrick, R. A., [1979], J. Parasitol., v. 64 (6), 1978, 1050-1056
Trypanosoma lewisi, Babesia rodhaini, Plasmodium chabaudi, rats, acquired nonspecific resistance associated with recovery from various infectious anemias, association with immunoglobulin activity, infections also stimulated production of cold-active hemagglutinin
- Immunity, Autoimmunity
Thoongsuwan, S.; Cox, H. W.; and Patrick, R. A., [1979], J. Parasitol., v. 64 (6), 1978, 1060-1066
Plasmodium chabaudi, Babesia rodhaini, rats, serologic specificity of immunoglobulin associated with infectious anemia and its role in nonspecific acquired resistance
- Immunity, Autoimmunity
Thoongsuwan, S.; Cox, H. W.; and Rickman, W. J., 1979, J. Parasitol., v. 65 (3), 426-429
Plasmodium chabaudi, Babesia rodhaini, Trypanosoma lewisi, rats, presence of antibody to fibrinogen/fibrin products, association with cold-activated hemagglutinin and immunoglobulin, temporal relationships with anemia and parasitemia
- Immunity, Capillary tube agglutination. See Immunity, Agglutination.
- Immunity, Cell-mediated
Ali-Khan, Z., 1978, Exper. Parasitol., v. 46 (2), pp. 157-165
Echinococcus multilocularis-infected mice, specific and nonspecific cell-mediated immune responses at various time intervals, data indicate that mice with chronic hydatidosis exhibit depressed in vivo CMI responses
- Immunity, Cell-mediated
Anderson, M. J. D.; and Griffin, J. F. T., 1979, Internat. J. Parasitol., v. 9 (3), 229-233
Taenia crassiceps, rats, differences in susceptibility to infection and development of immunocompetence in relation to host strain and age
- Immunity, Cell-mediated
Anderson, M. J. D.; and Griffin, J. F. T., 1979, Internat. J. Parasitol., v. 9 (3), 235-239
Taenia crassiceps, neonatal rats, adoptive transfer of immunity and immunocompetence with lymph node cells
- Immunity, Cell-mediated
Antunes, L. J.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (1), 9-13
human intestinal schistosomiasis mansoni before and after treatment with aminonitrothiazole, immunoglobulin-levels, immediate and delayed cutaneous hypersensitivity
- Immunity, Cell-mediated
Araj, G. F.; Matossian, R. M.; and Malakian, A. H., 1977, Ztschr. Parasitenk., v. 52 (1), 31-38
Echinococcus granulosus, mice with secondary hydatidosis, cell-mediated immune response in relation to humoral immune response and cyst development, passive protection with spleen cells
- Immunity, Cell-mediated
Arredondo, B.; and Perez, H., 1979, Infect. and Immun., v. 25 (1), 16-22
Leishmania mexicana, mice, chronic infection, alterations of immune response, results suggest role for suppressor cells in pathogenesis of diffuse cutaneous leishmaniasis
- Immunity, Cell-mediated
Askenase, P. W., 1979, J. Allergy and Clin. Immunol., v. 64 (2), 79-89
immune recruitment of basophils to cutaneous basophil hypersensitivity (CBH) reactions, regulation of tissue basophilia, anaphylactic function of basophils at CBH reactions, clinical consequences of basophil accumulation at CBH reactions, role of mast cells in delayed-type hypersensitivity, review
- Immunity, Cell-mediated
Au, A. C. S.; and Ko, R. C., 1979, Ztschr. Parasitenk., v. 59 (2), 161-168
Trichinella spiralis, Angiostrongylus cantonensis, cross-resistance in laboratory rats

- Immunity, Cell-mediated
Baalawy, S. S., 1975, Bull. Animal Health and Prod. Africa, v. 23 (1), 99-102
Fasciola gigantica, rabbits, passive immunization with homologous immune serum and sensitized lymphocytes from previously infected rabbits and heterologous immune serum from previously infected goats, results indicate both humoral and cell-mediated factors take part in immune mechanism
- Immunity, Cell-mediated
Barros, M. A. M.T.; et al., 1979, Clin. and Exper. Immunol., v. 38 (2), 376-380
Trypanosoma cruzi, patients with chronic myocardiopathy vs. indeterminate phase of Chagas' disease, leucocyte migration inhibition test using parasite vs. heart antigens
- Immunity, Cell-mediated
Bartlett, A.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 372-377
onchocerciasis, human, immediate and delayed skin reactions to Onchocerca volvulus and Necator americanus antigens, variations in response in generalized vs. localized (sowda) forms of disease
- Immunity, Cell-mediated
Behin, R.; Mael, J.; and Sordat, B., 1979, Exper. Parasitol., v. 48 (1), 81-91
Leishmania tropica major in various strains of mice, course of infection and size distributions of cutaneous lesions, in vitro macrophage function
- Immunity, Cell-mediated
Belozero, E. S.; et al., 1978, Zhurnal Mikrobiol., Epidemiol. i Immunobiol. (2), 78-80
opisthorchiasis, patients, indices of cellular and humoral immunity in chronic cases
- Immunity, Cell-mediated
Blackwood, L. L.; and Molinari, J. A., 1978, Internat. Arch. Allergy and Applied Immunol., v. 57 (1), 8-14
Trichinella spiralis, effect of different phases of life cycle on delayed hypersensitivity responses to heat-killed or viable BCG, findings suggest that effect of infection on immune capabilities of host is dependent on different anatomical locations of parasite
- Immunity, Cell-mediated
Borges, J. S.; and Johnson, W. D., jr., 1975, J. Exper. Med., v. 141 (2), 483-496
Toxoplasma gondii, in vitro model for quantitation of multiplication in monocytes from normal and immune human subjects, findings show that capacity to inhibit growth of toxoplasmas is induced in monocytes by a product released after exposure of T lymphocytes from immune subjects to toxoplasma antigen
- Immunity, Cell-mediated
Borojevic, D.; et al., 1979, Period. Biol., v. 81 (2), 483-484
Trichinella spiralis soluble antigen used for detection of antigen-sensitive lymphocyte populations in circulation of infected guinea pigs
- Immunity, Cell-mediated
Boron-Kaczmarzka, A.; et al., 1978, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 240 (4), 538-541
Taenia saginata, leukocyte migration inhibition test with polysaccharide antigen C of Taenia evaluated in infected and uninfected humans, results demonstrate that infection brings about a cellular hypersensitivity reaction of delayed type
- Immunity, Cell-mediated
Boron-Kaczmarzka, A.; et al., 1979, Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A, v. 245 (3), 387-394
trichinellosis, human, acute phase, IgG, IgA, and IgM levels, percentages of T and B lymphocytes
- Immunity, Cell-mediated
Boros, D. L., 1978, Progr. Allergy, v. 24, 183-267
granulomatous inflammations, extensive review including information on the schistosome egg granuloma
- Immunity, Cell-mediated
Buchmueller, Y.; and Mael, J., 1979, J. Exper. Med., v. 150 (2), 359-370
Leishmania enriettii, destruction in macrophages activated by supernates from concanavalin A-stimulated lymphocytes
- Immunity, Cell mediated
Buening, G. M., 1978, Am. J. Vet. Research, v. 39 (6), 925-930
Anaplasma marginale, cows, chemically modified Anaplasma antigen induced cell-mediated immune response with diminished antibody response to contaminating erythrocyte antigens; only cows given standard Anaplasma antigen (not chemically modified) developed Anaplasma antibodies and significant bovine erythrocyte antibody titer
- Immunity, Cell-mediated
Burgess, D. E.; and Hanson, W. L., 1979, Infect. and Immun., v. 25 (3), 838-843
Trypanosoma cruzi, mice, adoptive transfer of protection with lymphocytes and macrophages
- Immunity, Cell-mediated
Butterworth, A. E.; et al., 1979, J. Immunol., v. 122 (4), 1314-1321
Schistosoma mansoni, cytolytic T lymphocytes recognize alloantigens on schistosomula but fail to induce damage
- Immunity, Cell-mediated
Camus, D.; et al., 1979, European J. Immunol., v. 9 (4), 341-344
Schistosoma mansoni, rats, nonspecific suppressor cell activity and specific cellular unresponsiveness
- Immunity, Cell-mediated
Chensue, S. W.; and Boros, D. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 291-299
Schistosoma mansoni, mice, population dynamics of T and B lymphocytes in lymphoid organs, peripheral blood, and hepatic granulomas, appearance of B cells within granulomas may indicate that they play role in modulating granulomatous hypersensitivity

Immunity, Cell-mediated

- Chensue, S. W.; and Boros, D. L., 1979, *J. Immunol.*, v. 123 (3), 1409-1414
Schistosoma mansoni, characterization of T lymphocytes involved in adoptive suppression of granuloma formation in infected mice

Immunity, Cell-mediated

- Chinchilla, M.; and Frenkel, J. K., 1978, *Infect. and Immun.*, v. 19 (3), 999-1012
Toxoplasma gondii, *Besnoitia jellisoni*, antigen-treated lymphocytes from immune hamsters can directly confer immunity not only to macrophages but also to fibroblasts and kidney cells, infection-specific mediators can be derived from immune lymphocytes in presence of antigen and also confer immunity to macrophages and somatic cells

Immunity, Cell-mediated

- Claas, F. H. J.; and Deelder, A. M., 1979, *J. Immunogenet.*, v. 6 (3), 167-175
Schistosoma mansoni, mice of 2 congenic inbred strains, immune response (worm burden, mortality, antibody titre, spleen index, eosinophilia, delayed type hypersensitivity, in vitro response to 3 *S. mansoni* antigen preparations), results indicate H-2 region influences course of acute infection but not susceptibility to infection

Immunity, Cell-mediated

- Cohen, J.; and Spry, C. J. F., 1979, *Parasite Immunol.*, v. 1 (2), 167-178
Strongyloides stercoralis, West Indian man, associated small intestinal lymphoma causing obstruction, deficiency of T lymphocytes and eosinophils, lymphoma may have led to reduction in cellular immunity with subsequent development of *Strongyloides* hyperinfection

Immunity, Cell-mediated

- Cohen, S., 1976, *Immunol. Parasit. Infect.*, 18-34
 immune effector mechanisms, review

Immunity, Cell-mediated

- Cohen, S., 1978, *Israel J. Med. Sc.*, v. 14 (5), 537-541
 malaria, mechanisms of acquired immunity to erythrocytic stage, symposium presentation

Immunity, Cell-mediated

- Colley, D. G., 1976, *J. Exper. Med.*, v. 143 (3), 696-700
Schistosoma mansoni, passive transfers of lymphoid cells from chronically infected mice to syngeneic mice in early stages of infection suppressed granuloma formation, passive transfers of serum had no such effect

Immunity, Cell-mediated

- Colley, D. G.; et al., 1979, *J. Immunol.*, v. 122 (4), 1447-1453
Schistosoma mansoni, in vitro nonspecific suppression of phytohemagglutinin responsiveness induced by exposure to certain schistosomal preparations

Immunity, Cell-mediated

- Colley, D. G.; Lewis, F. A.; and Todd, C. W., 1979, *Cellular Immunol.*, v. 46 (1), 192-200
Schistosoma mansoni, mice, adoptive suppression of granuloma formation by T lymphocytes and by lymphoid cells sensitive to cyclophosphamide

Immunity, Cell-mediated

- Corbett, R.; et al., 1975, *Transplant. Proc.*, v. 7 (4), 557-559
Demodex canis, dogs, defect in cell-mediated immunity

Immunity, Cell-mediated

- Cottrell, B. J.; Playfair, J. H. L.; and De Souza, B. J., 1978, *Clin. and Exper. Immunol.*, v. 34 (2), 147-158
Plasmodium berghei and *P. yoelii*-vaccinated mice, manifestations of cell-mediated immunity

Immunity, Cell-mediated

- Coulis, P. A.; Lewert, R. M.; and Fitch, F. W., 1978, *J. Immunol.*, v. 120 (1), 58-60; Erratum (3), 1073-1076
Schistosoma mansoni, depression and restoration of cell-mediated cytotoxicity of spleen cells from infected mice, present studies suggest role of macrophage rather than T-cell as suppressor cell in this model

Immunity, Cell-mediated

- Day, K. P.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 217-239
Nippostrongylus brasiliensis vs. *Nematospiroides dubius*, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses

Immunity, Cell-mediated

- Dharmkrong-at, A.; Uahkowitzchai, V.; and Sirisinha, S., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (3), 330-337
Angiostrongylus cantonensis, rats (exper.) humoral and cell-mediated immune responses to somatic and metabolic antigens analyzed using hemagglutination, macrophage migration inhibition, and cutaneous hypersensitivity tests

Immunity, Cell-mediated

- Dixon, J. B.; et al., 1978, *J. Parasitol.*, v. 64 (5), 949-950
Echinococcus granulosus, blastic stimulation of unprimed mouse lymphocytes by living protoscolices, possible connection with transplant immunity

Immunity, Cell-mediated

- Doenhoff, M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 260-273
Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-*S. mansoni* egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Immunity, Cell-mediated

- Duffus, W. P. H.; et al., 1978, *Infect. and Immun.*, v. 22 (2), 492-501
Theileria parva, *Trypanosoma rhodesiense*, ⁵¹Cr-labeled chicken erythrocytes coated with protozoal antigens form suitable targets for bovine antibody-dependent cell-mediated cytotoxicity assays

- Immunity, Cell-mediated
El-Raziky, E. H.; et al., 1977, Egypt. J. Riharz., v. 4 (2), 195-201
Schistosoma mansoni, S. haematobium, humans, delayed skin test reactions to S. mansoni antigen were increased with host age and severity of infections and were more frequent in males, correlations with immediate skin test reactions
- Immunity, Cell-mediated
Feldmann, M., 1976, Immunol. Parasit. Infect., 1-17
cellular basis of immune sensitization, review
- Immunity, Cell-mediated
Ferguson, A.; and MacDonald, T. T., 1977, Ciba Found. Symp., n.s. (46), 305-327
effects of local delayed hypersensitivity on the small intestine, review including some information on Giardia lamblia and Nippostrongylus brasiliensis
- Immunity, Cell-mediated
Finerty, J. F.; Krehl, E. P.; and McKelvin, R. L., 1978, Infect. and Immun., v. 20 (2), 464-467
Trypanosoma rhodesiense-immunized mice, delayed-type hypersensitivity elicited, results suggest that T-cell activation was necessary component in protective response
- Immunity, Cell-mediated
Freeman, R. R., 1978, Cellular Immunol., v. 41 (2), 373-379
Plasmodium, delayed-type hypersensitivity to sheep erythrocytes was depressed during fatal P. berghei and self-limiting P. yoelii infections in mice, immunological lesion found to be at level of DTH expression (i.e., inflammatory response) rather than at level of T cell sensitization
- Immunity, Cell-mediated
Gabriel, B. W.; and Justus, D. E., 1979, Internat. Arch. Allergy and Applied Immunol., v. 60 (3), 275-285
Trichinella spiralis, mice, quantitation of immediate and delayed hypersensitivity responses, correlation with worm expulsion
- Immunity, Cell mediated
Ganguly, N. K.; et al., 1979, Indian J. Med. Research, v. 69, 412-416
Entamoeba histolytica, cellular reactions to amoebic antigen in patients with amoebic liver abscess and intestinal amoebiasis
- Immunity, Cell-mediated
Ganguly, N. K.; et al., 1979, Indian J. Med. Research, v. 70, 17-21
Entamoeba histolytica, isolation of antigen fraction responsible for delayed hypersensitivity in amoebiasis, macrophage migration inhibition
- Immunity, Cell-mediated
Gardner, I. D.; and Remington, J. S., 1978, J. Immunol., v. 120 (3), 944-949
Toxoplasma gondii, mice, effect of host age on lymphocyte responsiveness and macrophage activation during acute and chronic infection, results suggest that increased 'antigenic load' in older mice with chronic infection may result in enhanced cell-mediated immunity but at extreme of old age there is major decline in inductive mechanism which overrides this stimulation
- Immunity, Cell-mediated
Gerbase-Delima, M.; Carlquist, I.; and Mendes, N. F., 1979, Cellular Immunol., v. 48 (1), 231-234
specificity of local transfer of cell-mediated immunity to several antigens (including leishmanin) with dialyzable transfer factor
- Immunity, Cell-mediated
Gisler, R. H., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 111-126
cellular regulation of immune responses, colloquium presentation
- Immunity, Cell-mediated
Glauert, A. M.; et al., 1978, J. Cell Sc., v. 34, 173-192
Schistosoma mansoni, mechanism of antibody-dependent eosinophil-mediated damage to schistosomula in vitro, phase-contrast and electron microscopic study
- Immunity, Cell-mediated
Gold, D.; et al., 1978, J. Parasitol., v. 64 (5), 866-873
Entamoeba histolytica, serologic and cell-mediated immune responses of Mesocricetus auratus exposed to 2 parasite strains, indirect hemagglutination test, lymphocyte transformation, migration inhibition of macrophages, some evidence of immunosuppression
- Immunity, Cell-mediated
Greenwood, B. M.; Oduloju, A. J.; and Platts-Mills, T. A. E., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 178-182
Plasmodium falciparum-infected human red blood cells, supernatants from cultures stimulated lymphocytes from both malaria immune and malaria-non-immune donors, parasite-derived mitogen may play role in pathogenesis of hypergammaglobulinaemia
- Immunity, Cell-mediated
Grieve, R. B.; Gebhardt, B. M.; and Bradley, R. E., sr., 1979, Internat. J. Parasitol., v. 9 (4), 275-279
Dirofilaria immitis, dogs (exper.), cell-mediated (lymphocyte transformation assay) and humoral (indirect hemagglutination assay) immune responses, diminished mitogen responsiveness
- Immunity, Cell-mediated
Hall, B. T.; et al., 1979, Exper. Parasitol., v. 47 (3), 305-312
Trichinella spiralis, responses of spleen cells in mixed lymphocyte cultures (depressed) and to T-independent immunogen (enhanced) in vitro parallel alterations in immune responsiveness in vivo
- Immunity, Cell-mediated
Handman, E.; Ceredig, R.; and Mitchell, G. F., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (1), 9-29
Leishmania tropica, susceptibility in intact and nude mice of various genotypes and at level of macrophage in vitro, possible nature of immunological defect responsible for persistent disease in susceptible mouse strains

Immunity, Cell-mediated

- Hashimoto, A., 1972, Showa Igakkai Zasshi (J. Showa Med. Ass.), v. 32 (6), 292-296
Hymenolepis nana, mice, immunity acquired from primary infection suppressed by rabbit antimouse thymocyte serum but not by anti-mouse lymphocyte serum

Immunity, Cell-mediated

- Hirsch, J. G.; Jones, T. C.; and Len, L., 1974, Ciba Found. Symp., n.s. (25), 205-223
Toxoplasma gondii, interactions in vitro with mouse cells, review

Immunity, Cell-mediated

- Hoerchner, F.; Zander, B.; and Gerber, H. C., 1977, Ztschr. Parasitenk., v. 52 (3), 281-288
Nippostrongylus brasiliensis in vitro, reactions to serum, lymphocytes, and peritoneal cells of immune or non-infected rats added in various combinations to culture media

Immunity, Cell-mediated

- Ito, Y.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (6), 333-339
Trichomonas foetus, mice, protective role of immune lymphoid cells and phagocytes, microscopical observations

Immunity, Cell-mediated

- Johnson, D. W.; and Muscoplat, C. C., 1977, Progr. Immunol. III, 651-657
cell-mediated immune reactions in diseases of the bovine, review including brief section on Anaplasma marginale

Immunity, Cell-mediated

- Jones, T. C.; Len, L.; and Hirsch, J. G., 1975, J. Exper. Med., v. 141 (2), 466-482
Toxoplasma gondii, alterations in mice infected with toxoplasmas attenuated in virulence, effects of antibodies to Toxoplasma on survival and growth of these organisms in vitro, multiplication of toxoplasmas within macrophages from normal and immunized mice, requirements for lymphocytes and for Toxoplasma antigen for induction in macrophages of ability to suppress Toxoplasma multiplication and variation in these requirements with time after immunization, further characterization of lymphocyte-antigen effect on macrophages, effects on Toxoplasma multiplication in macrophages of supernates of immune lymphocyte-Toxoplasma antigen interactions

Immunity, Cell-mediated

- Joseph, S. A., 1977, Indian J. Animal Research, v. 11 (2), 84-86
Ctenocephalides felis orientis in 4 human volunteers, dermatitis, immediate and delayed hypersensitivity

Immunity, Cell-mediated

- Karmanska, K.; and Michalska, Z., 1978, Acta Parasitol. Polon., v. 25 (11-20), 191-198
Trichinella spiralis, mice, dynamics of stimulation of T and B lymphocytes in intestines, muscles, and lymphatic organs in different phases of infection, results indicate that delayed hypersensitivity is not responsible for expulsion

Immunity, Cell-mediated

- Kassis, A. I.; Warren, K. S.; and Mahmoud, A. A. F., 1978, Cellular Immunol., v. 38 (2), 310-318
Schistosoma haematobium, mice, granuloma formation around eggs is largely cell-mediated immunologic reaction, is dependent on dose and route of sensitization, is relatively specific among the 3 schistosome species, and can be transferred with cells but not with serum from previously egg-sensitized mice; furthermore, egg-sensitized animals demonstrate immediate and delayed skin reactivity on challenge with egg antigens

Immunity, Cell-mediated

- Kayes, S. G.; and Colley, D. G., 1979, J. Immunol., v. 122 (6), 2340-2344
Schistosoma mansoni, in vitro induction and assay of spleen cell suppressor activity

Immunity, Cell-mediated

- Kazura, J. W.; and Grove, D. I., 1978, Nature, London (5671), v. 274, 588-589
Trichinella spiralis, antibody-dependent eosinophil-mediated destruction mechanism specific for newborn larval stage, destruction of adult worms or muscle larvae not observed

Immunity, Cell-mediated

- Kelly, J. D.; Kenny, D. F.; and Whitlock, H. V., 1977, N. Zealand Vet. J., v. 25 (1-2), 12-15
Ancylostoma caninum, dogs, peripheral blood lymphocyte response to phytohaemagglutinin before and after development of iron deficiency anemia

Immunity, Cell-mediated

- Kierszenbaum, F., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 965-968
Trypanosoma cruzi, antibody-dependent killing of bloodstream forms by human peripheral blood leukocytes

Immunity, Cell-mediated

- Kierszenbaum, F.; and Pienkowski, M. M., 1979, Infect. and Immun., v. 24 (1), 117-120
Trypanosoma cruzi, mice, thymus-dependent control of host defense mechanisms

Immunity, Cell-mediated

- Kittas, C.; and Henry, L., 1979, Clin. and Exper. Immunol., v. 36 (1), 16-23
Toxoplasma gondii, guinea pigs, effect of gonadectomy and oestrogen administration on development of lesions in non-lymphoid organs, results suggest that cell-mediated immunity is important in both pathogenesis of and resistance to non-lymphoid toxoplasmosis

Immunity, Cell-mediated

- Klesius, P. H.; et al., 1975, Transplant. Proc., v. 7 (3), 449-452
Eimeria bovis, calves, delayed hypersensitivity (DH) response, passive transfer to other calves via lymphocytes and via cell-free transfer factor (TF), acquired immunity found in some calves receiving TF; DH skin reactivity for coccidian oocyst antigen and diphtheria toxoid was also passively transferred to rabbits, dogs, and rhesus monkeys with calf TF

Immunity, Cell-mediated

Klesius, P. H.; et al., 1978, Clin. Immunol. and Immunopathol., v. 10 (2), 214-221

Eimeria ferrisi, cell-mediated immunity stimulated in mice by prophylactic treatment with bovine transfer factor (TFd) prepared from lymph node lymphocytes of cattle immune to *E. bovis*, lymphocyte stimulation and protection against clinical infection, susceptible mice given lymphocytes from donor mice treated with bovine TFd were also partly protected against clinical infection

Immunity, Cell-mediated

Klesius, P. H.; et al., 1979, Clin. Immunol. and Immunopathol., v. 12 (2), 143-149

Eimeria ferrisi, C57BL/6 mice, effects of immunization and treatment with transfer factor, results suggest this host strain has genetically determined defect in cell-mediated immune response to this infection

Immunity, Cell-mediated

Klesius, P. H.; and Hinds, S. E., 1979, Infect. and Immun., v. 26 (3), 1111-1115

Eimeria ferrisi, comparison of susceptibility in various inbred and F_1 hybrid mouse strains and in nu/nu and nu/+ BALB/c mice, effect of treatment with rabbit anti-mouse thymocyte serum

Immunity, Cell-mediated

Kobayakawa, T.; et al., 1976, Japan. J. Med. Sc. and Biol., v. 29 (6), 351-357

Dirofilaria immitis, parasitocidal effect of normal peritoneal exudate cells (PEC) on microfilariae (Mf) in diffusion chambers implanted in guinea pigs was evoked by intra-peritoneal passive transfer of anti-*D. immitis* serum; in vitro cytotoxicity test demonstrated enhanced Mf-killing activity of sensitized PEC with addition of antiserum

Immunity, Cell-mediated

Kolhe, N. P.; Lakshmi, P. N.; and Johri, G. N., 1979, Experientia, v. 35 (9), 1242-1243

Ancylostoma caninum, mice, passive transfer of acquired immunity through sensitized thymus and bone marrow cells

Immunity, Cell-mediated

Leke, R. G. F.; and Viens, P., 1978, IRCS J. Med. Sc., v. 6 (3), 99

Plasmodium chabaudi-infected mice (T-cell deprived, sham-thymectomized and normal), course of infection, comparison with *P. yoelii*; T-cell deprived mice with *P. chabaudi* (unlike *P. yoelii*) gave reactions similar to those of normal and sham-deprived mice indicating that this malaria model is not thymus dependent

Immunity, Cell-mediated

Levy, S.; et al., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (6), 323-328

Schistosoma mansoni, humans, in vivo and in vitro study of cell-mediated immunity, research indicated that immune response is preserved in most patients but with minor deficiencies detected

Immunity, Cell-mediated

Lewert, R. M.; Yogore, M. G., jr.; and Blas, B. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 92-98

Schistosoma japonicum, humans, assay of lymphocyte blast transformation by whole blood culture technique under field laboratory conditions, measurement of response to phytohemagglutinin and to worm and egg antigens in relation to host age, sex, and level of egg excretion

Immunity, Cell-mediated

Liew, F. Y.; Dhaliwal, S. S.; and Teh, K. L., 1979, Immunology, v. 37 (1), 35-44

Plasmodium berghei, mice, effect of infection and of supernatant obtained from cultures of infected red cells on humoral (enhanced or suppressed) and cell-mediated (suppressed) immune responses to unrelated antigens

Immunity, Cell-mediated

Liston, A. J.; Baker, J. R.; and Selden, L. F., 1977, J. Gen. Microbiol., v. 98 (2), 615-617

Trypanosoma dionisii, *T. vespertilionis*, immunized mice, delayed-type hypersensitivity footpad response to homologous or heterologous species

Immunity, Cell-mediated

Loker, E. S., 1978, Exper. Parasitol., v. 46 (2), 134-140

Schistosomatum douthitti, effect of irradiating miracidia on their infection of *Lymnaea catascopium*, results of later challenge with normal miracidia, failure to confer protection

Immunity, Cell-mediated

Lopez, A. F.; Bunn Moreno, M. M.; and Sanderson, C. J., 1978, Internat. J. Parasitol., v. 8 (6), 485-489

Trypanosoma cruzi, lysis of epimastigotes by eosinophils (entirely antibody-dependent) and neutrophils (significant antibody-independent component)

Immunity, Cell-mediated

Louis, J.; et al., 1979, European J. Immunol., v. 9 (11), 841-847

Leishmania tropica, mice, induction of specific T lymphocyte-dependent proliferative response

Immunity, Cell-mediated

Machnicka, B., 1977, Acta Parasitol. Polon., v. 24 (28-34), 335-343

Trichinella spiralis-infected mice, dynamics of antigen binding lymphocytes tested by rosette-forming cell technique

Immunity, Cell-mediated

Mackenzie, A. R.; Sibley, P. R.; and White, B. P., 1979, Parasite Immunol., v. 1 (1), 49-59

Trypanosoma brucei brucei-infected rats, differential suppression of 2 experimental allergic diseases

Immunity, Cell-mediated

Maddison, S. E., 1975, South. Med. J., v. 68 (12), 1545-1551

Schistosoma mansoni-infected rhesus monkey, experimental animal model for dialyzable transfer factor

Immunity, Cell-mediated

- Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 237-248
Schistosoma mansoni, rhesus monkeys, immunization, requirement for activation of both cell-mediated and humoral mechanisms

Immunity, Cell-mediated

- Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 249-254
Schistosoma mansoni, cellular and humoral immune responses in *Macaca mulatta* with multiple chronic and early primary infections

Immunity, Cell-mediated

- Maddison, S. E.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 955-961
Toxoplasma gondii, 31 patients 3 months after outbreak, lymphocyte proliferative responsiveness (normal to nonspecific mitogens and increased to *T. gondii* antigen)

Immunity, Cell-mediated

- Maddison, S. E.; and Kagan, I. G., 1979, *J. Parasitol.*, v. 65 (4), 515-519
Schistosoma mansoni, mice, passive transfer of immune serum or of a combination of sensitized cells and immune serum intravenously or intraperitoneally, results of percutaneous and subcutaneous exposure to cercarial challenge

Immunity, Cell-mediated

- Madeira, E. D.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 34-38
Trypanosoma cruzi, antibody-dependent cellular cytotoxicity of normal human blood cells against epimastigotes, main cytotoxic activity detected in granulocyte-rich fraction

Immunity, Cell-mediated

- Mahmoud, A. A. F., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 286-290
Schistosoma mansoni, effect of mutation diabetes (marked immunosuppression) on host-parasite relationship in mice, decreased granulomatous response

Immunity, Cell-mediated

- Makimura, S.; and Suzuki, N., 1977, *Research Bull. Obihiro Univ.*, s. 1, v. 10 (2), 401-406
Plasmodium berghei, mice, phagocytosis of parasitized erythrocytes by mouse peritoneal macrophages, concluded that both humoral and cellular factors were important

Immunity, Cell-mediated

- Mandel, M. A.; et al., 1974, *Surg. Forum*, v. 25, 300-302
 cholera toxin as suppressor of in vivo cell-mediated immunity, including suppression of granuloma formation around *Schistosoma mansoni* eggs; possible value as adjunct to current therapy

Immunity, Cell-mediated

- Manson-Smith, D. F.; Bruce, R. G.; and Parrott, D. M. V., 1979, *Cellular Immunol.*, v. 47 (2), 285-292
Trichinella spiralis, mice, development of villous atrophy and crypt hyperplasia and expulsion of nematodes from small intestine are mediated by T cells

Immunity, Cell-mediated

- Martinotti, M. G.; et al., 1979, *Microbiologica*, v. 2 (4), 405-408
Trichomonas vaginalis, in vitro microcytotoxicity assay for study of cell-mediated immunity against extracellular protozoa

Immunity, Cell-mediated

- Masihi, K. N.; and Werner, H., 1978, *J. Immunol.*, v. 121 (5), 2056-2059
Toxoplasma gondii, types of cells involved in antigen-stimulated and spontaneous rosette formation

Immunity, Cell-mediated

- Matossian-Rogers, A., 1979, *Clin. and Exper. Immunol.*, v. 36 (1), 38-45
Leishmania enriettii, *L. tropica* major, guinea pigs, macrophage spreading test in vitro, correlation with delayed hypersensitivity in vivo

Immunity, Cell-mediated

- Mauel, J., 1978, *Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977)*, 127-146
 immune mechanisms in protozoal infections, colloquium presentation

Immunity, Cell-mediated

- Mayrhofer, G., 1979, *Cellular Immunol.*, v. 47 (2), 312-322
Nippostrongylus brasiliensis, rats, effect of thymectomy and of depleting recirculating lymphocytes on jejunal mucosal mast cell response to infestation

Immunity, Cell-mediated

- Mendes, E., 1979, *Cellular Immunol.*, v. 42 (2), 424-427
 transfer of delayed hypersensitivity to leishmanin (Montenegro reaction), remains to be established whether this alters clinical course of visceral leishmaniasis

Immunity, Cell-mediated

- Mesfin, G. M.; and Bellamy, J. E. C., 1979, *Infect. and Immun.*, v. 23 (1), 108-114
Eimeria falciformis var. *pragensis*, mice, (i) effects of immune response on life cycle, (ii) relative immunizing ability of different doses of oocysts, (iii) duration of acquired resistance; possibility that cell-mediated immune mechanism is responsible for arrest in schizogony

Immunity, Cell-mediated

- Mesfin, G. M.; and Bellamy, J. E. C., 1979, *Infect. and Immun.*, v. 23 (2), 460-464
Eimeria falciformis var. *pragensis*, mice, thymic dependence of immunity

Immunity, Cell-mediated

- Michel, J. C.; Lagrange, P. H.; and Hurtrel, B., 1979, *Parasite Immunol.*, v. 1 (4), 267-275
Plasmodium-infected mice, profound alteration of inductive phase of delayed-type hypersensitivity and antibody formation to sheep erythrocytes when sensitization with antigen was performed intravenously at critical time of disease but not after subcutaneous immunization, suggests major role for spleen in mechanism of immunodepression

Immunity, Cell-mediated

- Miller, H. R. P.; and Nawa, Y., 1979, *Exper. Parasitol.*, v. 47 (1), 81-90
Nippostrongylus brasiliensis, rats, parasite elimination is associated with increase in proportion of intestinal goblet cells, this effect can be adoptively transferred by immune thoracic duct lymphocytes

Immunity, Cell-mediated

- Miller, H. R. P.; Nawa, Y.; and Parish, C. R., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (3), 281-285
Nippostrongylus brasiliensis-infected rats adoptively immunized with different subpopulations of immune thoracic duct lymphocytes, intestinal goblet cell response, cells lacking surface immunoglobulin were most potent stimulators of goblet cell differentiation

Immunity, Cell-mediated

- Mitchell, G. F., 1978, *Contemp. Topics Immunobiol.*, v. 8, 55-67
 metazoan and protozoan infections in nude mice, review

Immunity, Cell-mediated

- Moiraghi Ruggerini, A.; et al., 1978, *Boll. Ist. Sieroterap. Milanese*, v. 57 (2), 140-151
Toxoplasma gondii, human, lymphocyte blastogenesis

Immunity, Cell-mediated

- Moloney, A.; and Denham, D. A., 1979, *Parasite Immunol.*, v. 1 (1), 3-12
Trichinella spiralis, effects of immune serum and cells on newborn larvae, in vitro and in vivo (mice) studies

Immunity, Cell-mediated

- Murphy, J. R.; and Lefford, M. J., 1979, *Infect. and Immun.*, v. 23 (2), 384-391
Plasmodium yoelii, mice, defense mechanism against infection is mediated by humoral factors in absence of demonstrable cell-mediated immunity

Immunity, Cell-mediated

- Murray, H. W.; et al., 1979, *J. Exper. Med.*, v. 150 (4), 950-964
Toxoplasma gondii, role of oxygen intermediates in macrophage killing and inhibition of growth of intracellular toxoplasmas

Immunity, Cell-mediated

- Murray, H. W.; and Cohn, Z. A., 1979, *J. Exper. Med.*, v. 150 (4), 938-949
Toxoplasma gondii, methods which demonstrate susceptibility to selected oxygen intermediates generated in cell-free system

Immunity, Cell-mediated

- Naik, S. R.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (3), 291-292
Giardia lamblia, humans, investigation of humoral and cellular immunity shows no impairment of immune functions

Immunity, Cell-mediated

- Nasser, M.; and Modabber, F. Z., 1979, *Infect. and Immun.*, v. 26 (2), 611-614
Leishmania tropica major in BALB/c mice, generalized infection and lack of delayed hypersensitivity, comparison with other mouse strains which exhibit localized and self-healing infection with this organism

Immunity, Cell-mediated

- Nayar, E., 1979, *Indian J. Med. Research*, v. 69, 417-422
Litomosoides carinii, albino rats (exper.), relationship between dose size, resulting parasitemia, and immune response (cell mediated and humoral)

Immunity, Cell-mediated

- Neva, F. A.; Wyler, D.; and Nash, T., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 467-471
 cutaneous leishmaniasis resembling 'moist' form caused by *Leishmania tropica major*, 24-year-old male Peace Corps volunteer in Senegal, case report, persistent organisms in healing lesions after multiple courses of treatment and in presence of normal humoral and cell-mediated immune response

Immunity, Cell-mediated

- Nogueira, N.; and Cohn, Z. A., 1978, *J. Exper. Med.*, v. 148 (1), 288-300
Trypanosoma cruzi, conditions for inducing and maintaining trypanocidal activity in both resident and inflammatory mouse peritoneal macrophages maintained in vitro

Immunity, Cell-mediated

- Ogilvie, B. M.; and Parrott, D. M. V., 1977, *Ciba Found. Symp.*, n.s. (46), 183-201
 immunological consequences of nematode infection, review with emphasis on *Nippostrongylus brasiliensis* and *Trichinella spiralis*

Immunity, Cell-mediated

- Olabeuena, S. E.; et al., 1979, *Cellular Immunol.*, v. 45 (1), 85-93
Trypanosoma cruzi, antibody-dependent cytotoxicity of epimastigotes by human polymorphonuclear leukocytes

Immunity, Cell-mediated

- Ottesen, E. A., 1979, *J. Immunol.*, v. 123 (4), 1639-1644
Schistosoma mansoni, human, adherent suppressor cells that inhibit lymphocyte proliferative responses to parasite antigens

Immunity, Cell-mediated

- Ottesen, E. A.; et al., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 38-47
Schistosoma mansoni, patients with acute, subacute, and chronic disease before and after niridazole treatment, lymphocyte responsiveness to schistosome antigens, possible implications of diminished cellular immune reactivity in chronic disease state

Immunity, Cell-mediated

- Owen, R. L.; Nemanic, P. C.; and Stevens, D. P., 1979, *Gastroenterology*, v. 76 (4), 757-769
Giardia muris in immunocompetent mice, intestinal distribution of trophozoites, attachment and relationships to intestinal mucosa (particularly Peyer's patches), normal reaction of intestine and intestinal immune organs; includes some incidental observations on *Hexamita muris*

Immunity, Cell-mediated

- Parab, P. B.; et al., 1979, Indian J. Med. Research, v. 69, 122-127
tropical eosinophilia, humans, immune response to various parasitic antigens, rat mast cell degranulation and migration inhibition tests show most are sensitized to filarial antigens

Immunity, Cell-mediated

- Patrucco, A.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 425-426
Trypanosoma cruzi, human, leucocyte migration inhibition test with 3 antigenic fractions and whole homogenate, flagellar fraction proved to be antigen of choice, low incidence of positive response in patients with cardiomyopathy when compared with asymptomatic but serologically positive patients

Immunity, Cell-mediated

- Pearson, T. W.; et al., 1979, Nature, London (5733), v. 281, 678-680
cell-mediated immunity to *Theileria parva*-transformed cell lines

Immunity, Cell-mediated

- Pelley, R. P.; and Warren, K. S., 1978, J. Invest. Dermat., v. 71 (1), 49-55
schistosomiasis, review of current evidence that both induction and amelioration of hepatosplenic disease are immunologically mediated

Immunity, Cell-mediated

- Perez, H.; Arredondo, B.; and Gonzalez, M., 1978, Infect. and Immun., v. 22 (2), 301-307
Leishmania mexicana, 2 human strains (one from typical case of American cutaneous leishmaniasis and one from case of diffuse cutaneous leishmaniasis) in 2 strains of inbred mice, course of lesions, delayed hypersensitivity response, agglutinating antibodies, in vitro responses to leishmanial antigens and to mitogens, results show impaired immune response in BALB/c mice

Immunity, Cell-mediated

- Perez, H.; Arredondo, B.; and Machado, R., 1979, Exper. Parasitol., v. 48 (1), 9-14
Leishmania mexicana, *L. tropica major*, cross immunity in mice, evidence of shared antigenic determinants which are involved in cell-mediated immune responses

Immunity, Cell-mediated

- Perez, H.; Labrador, F.; and Torrealba, J. W., 1979, Internat. J. Parasitol., v. 9 (1), 27-32
Leishmania mexicana, variations in response of 5 strains of mice (course of infection, delayed type hypersensitivity response, humoral antibody production), crossing experiments between resistant and susceptible strains suggest that resistance is inherited as dominant character

Immunity, Cell-mediated

- Pery, P.; et al., 1979, Ann. Immunol., v. 130C (4), 531-540
cytidine-5'-diphospho-choline conjugates, immunogenicity in rats, protective activity against subsequent challenge with *Nippostron-gylus brasiliensis*

Immunity, Cell-mediated

- Phillips, R. S.; Brown, K. N.; and Hills, L. A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 92-94
Plasmodium berghei, reduced protective activity of immune spleen cells from completely cured rats if cells are transferred to rats which have been infected for 5-8 days before cell transfer

Immunity, Cell-mediated

- Phillips, S. M.; et al., 1978, Cellular Immunol., v. 38 (2), 239-254
Schistosoma mansoni, rats, prerequisite mechanisms whereby natural infection or artificial immunization leads to development of optimal protective immunity, in vivo and in vitro criteria of cellular and humoral immune reactivity evaluated

Immunity, Cell-mediated

- Phillips, S. M.; and Colley, D. G., 1978, Progr. Allergy, v. 24, 49-182
schistosomiasis with emphasis on *Schistosoma mansoni*, immunologic aspects of host responses, extensive review: cellular and humoral immune response; immunopathology; eosinophils

Immunity, Cell-mediated

- Playfair, J. H. L.; et al., 1979, Nature, London (5740), v. 282, 731-734
Plasmodium yoelii- or *P. berghei*-vaccinated mice, cell-mediated immunity in liver

Immunity, Cell-mediated

- Preston, P. M.; Behbehani, K.; and Dumonde, D. C., 1978, J. Clin. and Lab. Immunol., v. 1 (3), 207-219
Leishmania tropica major, experimental cutaneous leishmaniasis, anergy and allergy in cellular immune response during non-healing infection in different strains of mice

Immunity, Cell-mediated

- Rajasekariah, G. R.; and Howell, M. J., 1979, J. Parasitol., v. 65 (4), 481-487
Fasciola hepatica, rats, transfer of immunity by serum and cells from infected to naive animals, hematological and precipitating antibody responses of recipients

Immunity, Cell-mediated

- Reed, S. G.; Larson, C. L.; and Speer, C. A., 1977, Ztschr. Parasitenk., v. 52 (1), 11-17
Trypanosoma cruzi, mice immunized by Freund's adjuvant or oxazolone, acute infection suppressed cell-mediated immunity to these antigens; immunization with live *T. cruzi* before infection resulted in greater than normal oxazolone sensitivity, mice survived infection; inconclusive as to whether immunosuppression due to infection is directed toward induction or toward expression of cell-mediated response

Immunity, Cell-mediated

- Reed, S. G.; Larson, C. L.; and Speer, C. A., 1978, Infect. and Immun., v. 22 (2), 548-554
Trypanosoma cruzi, contact sensitivity responses in infected mice, results indicate that suppression of contact sensitivity during acute infection is directed toward efferent arm rather than afferent arm of response

Immunity, Cell-mediated

Reiner, N. E.; et al., 1979, J. Infect. Dis., v. 140 (2), 162-168

Schistosoma mansoni, patients with advanced chronic hepatosplenic disease, concurrent responses of peripheral blood and splenic mononuclear cells to antigenic and mitogenic stimulation

Immunity, Cell-mediated

Reis, A. P.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 422-426

Trypanosoma cruzi, mice infected with different parasite strains, presence of delayed hypersensitivity demonstrated by leukocyte inhibition migration technique

Immunity, Cell-mediated

del Rey Calero, J.; Calbo Torrecillas, F.; and Gonzalez Rodriguez Salinas, M. C., 1972, Rev. Clin. Espan., v. 125 (6), 485-490

human toxoplasmosis, investigations of cellular basis for hypersensitivity using the macrophage migration test

Immunity, Cell-mediated

Rezaei, H. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1079-1083

kala-azar, children, serum immunoglobulin and complement levels, percentage of T and B cells, skin reactivity to Leishmania antigen

Immunity, Cell-mediated

Roberts, D. W.; and Weidanz, W. P., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 1-3

Plasmodium yoelii, B-cell deficient mice drug-rescued from otherwise lethal infections resisted subsequent challenge despite lack of detectable antibody

Immunity, Cell-mediated

Robinet, J. P.; and Rank, R. G., 1979, Infect. and Immun., v. 23 (2), 270-275

Trypanosoma musculi, mice, splenomegaly is T cell-dependent and is the result of proliferation of B and/or T lymphocytes

Immunity, Cell-mediated

Rook, G. A. W.; and Stanford, J. L., 1979, Parasite Immunol., v. 1 (2), 111-123

3 types of delayed skin-test response to mycobacteria in mice, relevance of each type to protection, susceptibility, and immunopathology in leprosy, tuberculosis, leishmaniasis, and listeriosis

Immunity, Cell-mediated

Rose, M. E.; et al., 1979, Parasite Immunol., v. 1 (2), 125-132

Eimeria nieschulzi, Nippostrongylus brasiliensis, failure of nude (athymic) rats to become resistant to reinfection

Immunity, Cell-mediated

Rosenberg, Y. J., 1978, Nature, London (5667), v. 274, 170-172

Plasmodium berghei yoelii, mice, plaque-forming cell assays used to reveal pattern of both total and antigen-specific splenic B lymphocyte activation and to define anti-erythrocytic autoimmune response, both responses shown to be T-cell dependent

Immunity, Cell-mediated

Ross, J. G.; and Halliday, W. G., 1978, Vet. Rec., v. 102 (11), 240-241

Trichostrongylus axei, T. colubriformis, Ostertagia circumcincta, sheep, leucocyte lysate transfers significant degree of immunity; Nippostrongylus brasiliensis in rats and T. axei in calves showed no transfer of immunity by leucocyte lysate

Immunity, Cell-mediated

Ross, J. G.; and Halliday, W. G., 1979, Research Vet. Sc., v. 26 (1), 41-46

Trichostrongylus axei, 'transfer factor' activity in transfer of immunity to susceptible lambs

Immunity, Cell-mediated

Rowland, E. C.; and Kuhn, R. E., 1978, Infect. and Immun., v. 20 (2), 393-397

Trypanosoma cruzi, mice (2 strains of differing resistance), suppression of cell-mediated responses during infection, significance unclear

Immunity, Cell-mediated

Rowland, E. C.; and Kuhn, R. E., 1978, J. Parasitol., v. 64 (4), 741-742

Trypanosoma cruzi, mice, suppression of anamnestic cellular responses in immunized animals, suppression shows nonspecific character, could be speculated that T. cruzi acts as tolerogen during infection resulting in anergic condition similar to desensitization

Immunity, Cell-mediated

Ruitenberg, E. J.; and Elgersma, A., 1979, Brit. J. Exper. Path., v. 60 (3), 246-251

Trichinella spiralis, mice, response of intestinal globule leucocytes during infection and its independence of intestinal mast cells

Immunity, Cell-mediated

Saeki, H., 1975, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 44 (5), 309-321

anisakiasis, studies on cell-mediated immunity in exper. guinea pigs and rabbits, positive skin test reactions suggest presence of delayed hypersensitivity, macrophage migration test proved more sensitive than skin tests and is suggested for use in study of immunity of anisakiasis

Immunity, Cell-mediated

dos Santos, R. R., 1973, Rev. Patol. Trop., v. 2 (4), 433-463

Trypanosoma cruzi, lymphocytes of mice inoculated with avirulent PF strain conferred immunity in mice (treated with immunosuppressive drugs or untreated) against infections with the virulent Y strain; newborn mice treated with immunosuppressive drugs showed no protection against the virulent strain

Immunity, Cell-mediated

Santos-Buch, C. A., 1977, Immunopathol., 7. Internat. Symp. (Bad Schachen, Germany, June 14-19, 1976), 205-220

Trypanosoma cruzi, role of immune reactions in pathogenesis of Chagas' disease, review

Immunity, Cell-mediated

Sharma, M. K.; Anaraki, F.; and Ala, F., 1978, Clin. and Exper. Immunol., v. 32 (3), 477-483

Leishmania tropica, in vitro suppression of lymphocyte blastogenic response to mitogen and antigen

Immunity, Cell-mediated

Sharma, M. K.; Anaraki, F.; and Ala, F., 1979, Clin. Immunol. and Immunopathol., v. 12 (2), 183-190

Leishmania, human, persistent cutaneous infection, therapy with Leishmania-specific transfer factor

Immunity, Cell-mediated

Sher, A., 1977, Progr. Immunol. III, 688-695
Schistosoma mansoni, mice, effector mechanisms in host response, review

Immunity, Cell-mediated

Shirahata, T.; et al., 1977, Ztschr. Parasitenk., v. 53 (1), 31-40

Toxoplasma gondii in vitro, mouse immune lymphocytes produce lymphokine which inhibits intracellular multiplication of parasite within nonimmune mouse macrophages; biological aspects; substance named Toxoplasma growth inhibitory factor (Toxo-GIF)

Immunity, Cell-mediated

Shirahata, T.; and Shimizu, K., 1979, Microbiol. and Immunol., v. 23 (1), 17-30

Toxoplasma gondii, immune lymphocyte product which inhibits parasite multiplication within mouse macrophages, physicochemical characterization

Immunity, Cell-mediated

Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1979, Internat. J. Parasitol., v. 9 (4), 323-331

Taenia crassiceps, mice, ultrastructural aspects of host cellular immune response to metacestodes

Immunity, Cell-mediated

Smrkovski, L. L.; Larson, C. L.; and Reed, S. G., 1979, Infect. and Immun., v. 25 (3), 1078-1080

Leishmania donovani, increased susceptibility in congenitally athymic mice, correlated with lack of Arthus and delayed type responses

Immunity, Cell-mediated

Soulsby, E. J. L., 1972, Immun. Animal Parasites, 57-95

cell-mediated immunity responses in parasitic infections, review

Immunity, Cell-mediated

de Souza, M. do C. M., 1974, Rev. Patol. Trop., v. 3 (3), 291-332

Leptomonas pessoai, antigenic relationships with other trypanosomatids, cross-protection of mice against Trypanosoma cruzi

Immunity, Cell-mediated

Staroniewicz, Z., 1971, Acta Parasitol. Polon., v. 19 (19-28), 307-318

Trichinella spiralis, mice, failure to induce protective immunity by cell transfer from immunized donors, results indicate attenuation of immunity after transfer

Immunity, Cell-mediated

Stemberger, H., 1978, Immun. u. Infekt., v. 6 (2), 71-78

[Entamoeba] histolytica, investigation of cytolytic action of antibody, complement, and normal human peripheral blood lymphocytes as well as action of peripheral blood lymphocytes from donor with amoebic liver abscess

Immunity, Cell-mediated

Stockinger, H.; and Koenig, W., 1979, Behring Inst. Mitt. (64), 127-130

Nippostrongylus brasiliensis, rats, effects of cell-bound and circulating immune complexes on lymphocyte proliferation, suggested that immune complexes mediate diminution in mitogenic responsiveness

Immunity, Cell-mediated

Strickland, G. T.; DeSilva, S.; and Sayles, P. C., 1979, Tropenmed. u. Parasitol., v. 30 (1), 35-42

Plasmodium yoelii infection in mice and P. falciparum and P. vivax infection in humans, changes in lymphocyte populations during acute infections thought to be related to development of malarial immunity and immunodepression

Immunity, Cell-mediated

Sturrock, R. F.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 251-261

Schistosoma mansoni in Papio anubis, development of resistance to homologous challenge, correlation of in vitro tests (anti-schistosoma antibody and peripheral leucocyte cytotoxic activity) with in vivo immune status

Immunity, Cell-mediated

Subrahmanyam, D.; et al., 1978, J. Clin. Microbiol., v. 8 (2), 228-232

Wuchereria bancrofti, adhesion of peripheral blood leukocytes (PBL) to microfilariae (MF) in vitro promoted by sera from elephantiasis cases or from normal persons living in endemic areas for several years but not by sera from MF carriers or from normal subjects from nonendemic areas, adhesion was complement independent and associated with IgG fraction, studies suggest occurrence of cell-mediated cytotoxicity to MF in presence of elephantiasis serum, Litomosoides carinii MF adhered to human PBL or rat spleen cells in presence of serum or its IgG fraction from elephantiasis patients

Immunity, Cell-mediated

Tachon, P.; and Borojevic, R., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 605-609

Schistosoma mansoni, prenatal sensitization to schistosomal antigen in children born to infected mothers

Immunity, Cell-mediated

Tanabe, K.; Takada, S.; and Suzuki, M., 1978, J. Parasitol., v. 64 (2), 367-368

Plasmodium berghei-infected mice, sensitization to sheep red blood cells by subcutaneous vs. intravenous routes, difference in cell-mediated immune reaction in regional lymph nodes and spleen, results show difference between iv and sc sensitized mice in immunodepression by malaria

Immunity, Cell-mediated

Taylor, D. W.; and Siddiqui, W. A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 738-742

Plasmodium falciparum, in vitro mitogen responses of spleen and peripheral blood lymphocytes from infected Aotus trivirgatus griseimembra

Immunity, Cell-mediated

Taylor, D. W.; and Siddiqui, W. A., 1978, Infect. and Immun., v. 21 (1), 147-150

Plasmodium falciparum, suppression of lymphocyte transformation by plasma from acutely infected Aotus trivirgatus griseimembra

Immunity, Cell-mediated

Teixeira, A. R. L.; et al., 1978, J. Clin. Invest., v. 62 (6), 1132-1141

Trypanosoma cruzi, children with apparent vs. inapparent acute Chagas' disease, clinical and laboratory findings, humoral antibody response, delayed-type skin responses, inhibition of leukocyte migration, serum proteins and immunoglobulins; demonstration of cell-mediated immunodepression in inapparent acute disease

Immunity, Cell-mediated

Teixeira, A. R. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1097-1107

Chagas' disease, serum antibody titers, delayed skin response, inhibition of leukocyte migration by Trypanosoma cruzi antigen and by cross-reactive heart cell antigen, cytotoxicity of sensitized T-lymphocytes to parasitized human heart cells

Immunity, Cell-mediated

Thiery, G., 1978, Ann. Immunol., v. 129C (4), 503-522

rabbit's appendix, immunological model applied to study of epithelial immunity, including that against coccidiosis

Immunity Cell-mediated

Thorne, K. J. I.; et al., 1979, Parasitology, v. 79 (3), 367-379

Trypanosoma dionisii, phagocytosis and killing by human neutrophils, eosinophils, and monocytes, importance of specific anti-serum in this system

Immunity, Cell-mediated

Todd, C. W.; Goodgame, R. W.; and Colley, D. G., 1979, J. Immunol., v. 122 (4), 1440-1446

Schistosoma mansoni, suppression of schistosome antigen-specific lymphocyte blastogenesis by adherent/phagocytic cells

Immunity, Cell-mediated

Vadas, M. A.; et al., 1979, J. Immunol., v. 122 (4), 1228-1236

Schistosoma mansoni, new method for purification of human eosinophils and neutrophils, comparison of ability of these cells to damage schistosomula

Immunity, Cell-mediated

Vardhani, V.; and Johri, G. N., 1978, Experimentia, v. 34 (1), 122-123

Ancylostoma caninum, mice, transfer of immunity with sensitized peritoneal exudate cells from singly and repeatedly infected donors

Immunity, Cell-mediated

Verhave, J. P.; et al., 1978, J. Immunol., v. 121 (3), 1031-1033

Plasmodium berghei, transfer of protective immunity with lymphoid cells from mice immune to malaria sporozoites

Immunity, Cell-mediated

Verhave, J. P.; Meuwissen, J. H. E. T.; and Golenser, J., 1978, Israel J. Med. Sc., v. 14 (5), 611-616

arguments for the involvement of cell-mediated immunity in antiparasite protection, symposium presentation

Immunity, Cell-mediated

Vernes, A., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 455-468

helminthiasis, humans, value and limitations of hypersensitivity reactions for diagnosis, review

Immunity, Cell-mediated

Walls, R. S., 1976, South African Med. J., v. 50 (34), 1313-1318

soluble antigen derived from body fluid of Ascaris lumbricoides injected into mice to examine specificity of eosinophilic response, specificity demonstrated in primed lymphoid cells, evidence suggests that these lymphocytes are T cells

Immunity, Cell-mediated

Warren, K. S., 1976, Immunol. Parasit. Infect., 448-468

immunopathology due to cell-mediated (Type IV) reactions, review

Immunity, Cell-mediated

Weber, W. T., 1972, Immun. Animal Parasites, 33-55

immune response of fowl, function of bursa of Fabricius and thymus, review

Immunity, Cell-mediated

Weinbaum, F. I.; et al., 1978, J. Immunol., v. 121 (2), 629-636

Plasmodium berghei yoelii (substrain 17X nonlethal) in BALB/c mice, kinetics of various specific and nonspecific cellular and humoral responses during course of infection

Immunity, Cell-mediated

Weiss, N., 1978, Exper. Parasitol., v. 46 (2), 283-299

Dipetalonema viteae in 2 strains of hamster, lymphocyte blastogenesis (during different stages of primary infection, after injection of dead larvae, after implantation of adult worms, in mixed infection with Schistosoma mansoni), attempt to relate results with parasitological findings and with humoral immune response, analysis of cellular unresponsiveness to filarial antigens in chronically infected LAKZ hamsters

Immunity, Cell-mediated

Weiss, N.; and Tanner, M., 1979, Tropenmed. u. Parasitol., v. 30 (1), 73-80

Dipetalonema viteae in golden hamsters, antibody-dependent cell-mediated destruction of microfilariae demonstrated, no single effector cell type responsible for destruction

Immunity, Cell-mediated

Weissberger, H.; and Spira, D. T., 1978, Israel J. Med. Sc., v. 14 (5), 590-595

Plasmodium berghei, lymphoblast transformation in rats convalescent for one week to one year from infections of varying intensities, symposium presentation

Immunity, Cell-mediated

Welch, J. S.; Dobson, C.; and Freeman, C., 1979, Austral. Vet. J., v. 55 (6), 265-274

Dirofilaria immitis, Toxocara canis, dogs, epidemiological survey, host age, sex, and breed, immunodiagnosis (3 immunofluorescence tests, in vitro lymphocyte blastogenesis); prevalence of serum antibody in man proportional to incidence of canine infections: Queensland; Central Australia

Immunity, Cell-mediated

Weller, P. F., 1978, *Cellular Immunol.*, v. 37 (2), 369-382

Brugia pahangi, rats, sequential changes in cell-mediated immunity studied by following in vitro lymphocyte blastogenesis to filarial stage-specific antigens and to B- and T-cell mitogens during acute and chronic infection, possible model for immunological studies of filarial infections

Immunity, Cell-mediated

Werner, H.; et al., 1977, *Zentralbl. Bakteri-ol.*, 1. Abt. Orig., Reihe A, v. 238 (1), 128-142

Toxoplasma gondii, placental transmission in immunised pregnant mice and rabbits, dependent on various factors (host species, state of immunity, *Toxoplasma* strain); roles of cellular immune defense discussed

Immunity, Cell-mediated

Wikel, S. K.; Graham, J. E.; and Allen, J. R., 1978, *Immunology*, v. 34 (2), 257-263

Dermacentor andersoni, guinea pigs, development of resistance after one infestation, presence of cell-mediated immune component indicated by delayed skin reactivity and in vitro lymphocyte responsiveness to salivary gland antigen, evidence suggests that tick infestation might induce degree of immunosuppression in host

Immunity, Cell-mediated

Wilkie, B. N.; Markham, R. J. F.; and Hazlett, C., 1979, *Canad. J. Comp. Med.*, v. 43 (4), 415-419

Demodex canis, healthy Doberman puppies from kennel with high prevalence of mange, cell mediated immunological reactions, deficient cutaneous delayed response to phytohemagglutinin injection

Immunity, Cell-mediated

Wing, E. J.; and Remington, J. S., 1977, *Current Concepts Infect. Dis.*, 89-114

cell-mediated immunity in resistance to infection, including parasitic infection, extensive review

Immunity, Cell-mediated

Wing, E. J.; and Remington, J. S., 1978, *Infect. and Immun.*, v. 21 (2), 398-404

Trichinella spiralis infections in mice with normal macrophages and in mice with macrophages activated by either chronic *Toxoplasma gondii* or acute *Listeria monocytogenes* infections, results suggest role for activated macrophages in resistance to *T. spiralis*

Immunity, Cell-mediated

Wolf, R. E.; et al., 1978, *Ann. Int. Med.*, v. 88 (6), 769-773

Entopolypoides sp. intraerythrocytic parasitosis in 2 humans with hepatic dysfunction, description of serum factors inhibiting phytohemagglutinin response by normal lymphocytes suggests that hepatic dysfunction induces serum factors that diminish cellular immunity and allow patent parasitemia to develop: United States (one patient was born in Turkey; the other was a merchant seaman who traveled extensively)

Immunity, Cell-mediated

Wyler, D. J.; Herrod, H. G.; and Weinbaum, F. I., 1979, *Infect. and Immun.*, v. 24 (1), 106-110

Plasmodium falciparum, response of sensitized and unsensitized human lymphocyte subpopulations to malaria antigen

Immunity, Cell-mediated

Wyler, D. J.; Oppenheim, J. J.; and Koontz, L. C., 1979, *Infect. and Immun.*, v. 24 (1), 151-159

Plasmodium berghei, *P. yoelii*, mice, effects of infection on ability of adherent mononuclear cells to elaborate soluble mediators that regulate lymphocyte activation in vitro

Immunity, Cell-mediated

Wyler, D. J.; Weinbaum, F. I.; and Herrod, H. R., 1979, *J. Infect. Dis.*, v. 140 (2), 215-221

leishmaniasis patients and control subjects, in vitro proliferative responses of lymphocytes to leishmanial antigens

Immunity, Cell-mediated

Yeh, H. Y.; and Shien, Y. S., 1979, *J. Chinese Soc. Vet. Sc.*, v. 5 (1), 33-37

Trypanosoma evansi, dogs (exper.), changes in peripheral blood T- and B-lymphocytes

Immunity, Cell-mediated

Zemburowa, K.; Przybylski, Z.; and Roczniak, M., 1978, *Arch. Immunol. et Therap. Exper.*, v. 26 (1-6), 653-657

Toxoplasma gondii, rabbits, humoral and cellular immune response in different stages of pregnancy, no evidence that this immune response has any protective effect on foetus

Immunity, Cellular. See Immunity, Cell-mediated.Immunity, Circumoval precipitin test. See Immunity, Precipitation.

Immunity, Complement

Adam, C.; et al., 1978, *Protides Biol. Fluids*, v. 26, 219-223

schistosomiasis, filariasis, human, C3d and immune complex levels

Immunity, Complement

Akahane, H., 1975, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 24 (6), 347-352

Fasciola sp., rabbits, acute and chronic phases of infection, Ouchterlony and complement fixation titers

Immunity, Complement

Alarcon G., T.; and Olivares L., L., 1975, *Rev. Invest. Clin.*, v. 27 (3), 209-215

human cerebral cysticercosis, diagnosis by complement fixation or evidence of calcifications on X-ray, clinical symptoms, frequent coexistence of cysticercosis with other central nervous system conditions in areas of high prevalence

Immunity, Complement

Allen, J. R.; Khalil, H. M.; and Graham, J. E., 1979, *Immunology*, v. 38 (3), 467-472

Dermacentor andersoni, guinea pigs undergoing primary and secondary infestations, immunofluorescent localization of tick salivary gland antigens, IgG, and complement in skin

Immunity, Complement

- Almeida, H. de O.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (1), 37-39
human Chagas disease, complement fixation test performed on pericardial fluid of patients with chronic infection, fewer positive results obtained in patients with severe congestive failure than in those with no or minimal failure

Immunity, Complement

- Amato Neto, V.; da Silva, L. J.; and Camargo, M. E., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 99-102
serodiagnostic tests for Chagas disease performed on sera of patients with visceral leishmaniasis gave positive results with several immunologic methods, indicates "group-reactions" within Trypanosomatidae

Immunity, Complement

- Amerault, T. E.; Frerichs, W. M.; and Stiller, D., 1979, Am. J. Vet. Research, v. 40 (4), 529-531
Babesia caballi, horses, card test using newly developed antigen evaluated and compared with complement-fixation test

Immunity, Complement

- Anthony, R. L.; Johnson, C. M.; and Sousa, O. E., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 969-973
Trypanosoma cruzi, T. rangeli, Panamanian villagers, diagnosis, micro-enzyme-linked immunosorbent assay, some serologic cross-reactivity between 2 species; comparison with complement fixation, direct agglutination, and clinical diagnosis

Immunity, Complement

- Anwar, A. R. E.; Smithers, S. R.; and Bay, A. B., 1979, J. Immunol., v. 122 (2), 628-637
Schistosoma mansoni, killing of schistosomula coated with antibody and/or complement by human leukocytes in vitro, requirement for complement in preferential killing by eosinophils

Immunity, Complement

- Araj, G. F.; Matossian, R. M.; and Frayha, G. J., 1977, Ztschr. Parasitenk., v. 52 (1), 23-30
Echinococcus granulosus, mice with secondary hydatidosis, time-related development of complement-fixing and hemagglutinating antibodies, correlation with cyst development

Immunity, Complement

- Araujo, F. G., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 433-439
Trypanosoma cruzi, acute infection in mice, circulating antigens capable of reacting against mouse serum in complement fixation and counterimmunoelectrophoresis tests but not in haemagglutination test

Immunity, Complement

- Baker, J. R.; and Liston, A. J., 1978, J. Gen. Microbiol., v. 104 (1), 79-89
Trypanosoma dionisii, effect of various agents (including temperature, complement, trypsin, cytochalasin B and immune plasma) on attachment and entry to mouse peritoneal macrophages in vitro, and subsequent morphogenesis; attachment occurred to non-specific receptors, entry by phagocytosis

Immunity, Complement

- Balber, A. E.; et al., 1979, Infect. and Immun., v. 24 (3), 617-627
Trypanosoma brucei brucei, T. congolense, inactivation or elimination of potentially trypanolytic complement-activating immune complexes containing antibodies to variant-specific antigens

Immunity, Complement

- Baqui, A.; and Ansari, J. A., 1979, Current Sc., Bangalore, v. 48 (11), 503-504 [Letter]
Setaria cervi, white rats (exper.), serological diagnosis by means of complement fixation test

Immunity, Complement

- Barbosa, W.; et al., 1974, Rev. Patol. Trop., v. 3 (3), 263-268
Trypanosoma cruzi, diagnosis, sera from persons known to be infected, comparison of test results using counterimmunoelectrophoresis, hemagglutination, fluorescent antibody and complement fixation

Immunity, Complement

- Baruffa, G.; and Alcantara Filho, A., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (3), 121-127
Trypanosoma cruzi, humans, comparison of complement fixation and latex agglutination tests for immunodiagnosis of hospitalized patients and for epidemiologic surveys

Immunity, Complement

- Baruffa, G.; and Alcantara Filho, A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 117-123
Chagas disease, humans, prevalence survey using complement fixation test: southern zone, State of Rio Grande do Sul, Brazil

Immunity, Complement

- Bertoldini, G.; Codazza, D.; and Redaelli, G., 1978, Clin. Vet., Milano, v. 101 (8), 490-492
Babesia equi, B. caballi, horses, diagnosis, complement fixation test

Immunity, Complement

- Bidwell, D. E.; et al., 1978, Vet. Rec., v. 103 (20), 446-449
Babesia divergens, B. major, cattle (exper.), serological diagnosis, comparison between microplate enzyme linked immunosorbent assay, indirect fluorescent antibody, and complement fixation tests, ELISA may be preferable

Immunity, Complement

- Bombaci, L.; et al., 1976, Rev. Asoc. Bioquim. Argent. (224), v. 41, 28-35
Trypanosoma cruzi, evaluation of specificity and sensitivity of the direct agglutination test for diagnostic purposes in a non-endemic area, complement fixation and indirect hemagglutination tests used for comparison; when used with the addition of 2-mercaptoethanol in serum samples direct agglutination proved useful for screening in blood banks and for epidemiologic surveys

Immunity, Complement

- Bordjochki, A.; et al., 1978, Bull. Acad. Vet. France, n.s., v. 51 (2), 189-195
Sarcocystis fusiformis, S. tenella, S. miescheriana, rabbits (exper.), diagnostic value of complement fixation and fluorescent antibody tests

Immunity, Complement

- Boroskova, Z.; Benkova, M.; and Cerman, J., 1978, *Folia Vet.*, v. 19 (3-4), 355-360
Ascaris suum, infestive larval phase, use of ultrasound prepared antigen to demonstrate experimental ascaridiosis in migrating phase in unspesific host (rabbit) by complement-fixation reaction

Immunity, Complement

- Bulajic, M.; et al., 1977, *Srpski Arhiv Tse-lok. Lekar.*, v. 105 (7-8), 657-663
Fasciola hepatica, human, immunodiagnosis, comparative study of complement fixation, double diffusion precipitation, and indirect fluorescent antibody tests

Immunity, Complement

- Cacciapuoti, B.; et al., 1979, *Boll. Ist. Sieroterap. Milanese*, v. 58 (2), 148-157
Toxoplasmosis, human, diagnosis, complement fixation reaction, evaluation of different antigens and methods, comparison with dye test and indirect immunofluorescence

Immunity, Complement

- Camargo, M. E., 1975, *AMB, Rev. Ass. Med. Brasil.*, v. 21 (11), 341-344
Toxoplasma gondii, pregnant women, serodiagnosis, review

Immunity, Complement

- Camargo, M. E.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (4), 254-260
Trypanosoma cruzi, human, comparative serologic diagnosis, complement fixation, immunofluorescence, hemagglutination, flocculation tests

Immunity, Complement

- Camargo, M. E.; et al., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (3), 152-160
Toxoplasma gondii, human congenital, significance of different diagnostic tests in screening for inapparent infections, serologic tests and serologic patterns in mothers and children studied

Immunity, Complement

- Camargo, M. E.; Batista, S. M.; and Hoshino-Shimizu, S., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (6), 350-354
Trypanosoma cruzi, humans, freeze-dried reagent used with hemagglutination test evaluated, compared with complement fixation, preserved reagent found to be sensitive, specific and reliable

Immunity, Complement

- Camargo, M. E.; Hoshino-Shimizu, S.; and Umezawa, E. S., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (4), 230-235
Trypanosoma cruzi, I.M.T.-Chagas flocculation test evaluated, compared with complement fixation, hemagglutination and immunofluorescence test results

Immunity, Complement

- Camargo, M. E.; and Leser, P. G., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 227-238
Toxoplasmosis, humans with recently acquired infections, transitional serological patterns and evolution of antibodies studied comparing hemagglutination, complement fixation and immunofluorescence tests

Immunity, Complement

- Camargo, M. E.; Leser, P. G.; and Leser, W. S. P., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 215-226
Toxoplasma gondii, comparative study of hemagglutination, complement fixation, IgG- and IgM-immunofluorescence tests on human serum samples

Immunity, Complement

- Casarosa, L.; and Orlandi, M., 1978, *Ann. Fac. Med. Vet.*, Pisa, v. 30, 1977, 117-129
Dictyocaulus filaria L₃ larvae, sensitized with immune lamb serum, adherence reaction with normal guinea pig peritoneal macrophages; reaction positive, complement independent and inversely proportional to antiserum dilution, induced by an immunoglobulin combining with cuticle of parasite

Immunity, Complement

- Cerisola, J. A.; Alvarez, M.; and De Rissio, A. M., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (6), 403-411
Trypanosoma cruzi, human, acute disease, 2-year longitudinal study, comparison of results of complement fixation, hemagglutination and fluorescent antibody tests, with and without Bay 2502 treatment

Immunity, Complement

- Cunha, T. A., 1975, *Rev. Patol. Trop.*, v. 4 (1), 29-33
Trypanosoma cruzi, human, differential screening of serum using triple antigen (composed of cardiolipin, suspension of brucellas and T. cruzi antigen) for the complement fixation test, results showed test suitable for individual testing or mass screening

Immunity, Complement

- Cunningham, D. S.; Craig, W. H.; and Kuhn, R. E., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1044-1049
Trypanosoma cruzi, both susceptible and resistant mice become severely hypocomplementemic during exper. Chagas disease, trypanosomes and their products can initiate complement cascade via classical pathway, passively induced immunosuppression of humoral responses occurs in absence of concomitant hypocomplementemia

Immunity, Complement

- Diffley, P.; and Honigberg, B. M., 1978, *J. Parasitol.*, v. 64 (4), 674-681
Trypanosoma congolense, identification and quantitation of host albumin, nonspecific IgG, and complement (C3) bound to surface of bloodstream forms, possible functions for these surface-bound plasma proteins

Immunity, Complement

- Dighero, M. W.; and Bradstreet, C. M. P., 1979, *J. Helminth.*, v. 53 (4), 283-286
human hydatid disease, serodiagnosis, latex-agglutination and complement fixation tests

Immunity, Complement

- Dunan, S., 1978, *Rec. Med. Vet.*, v. 154 (3), 251-261
leishmaniasis, human and canine, immunologic diagnosis, changes in antibody levels during course of disease, interpretation of results

Immunity, Complement

- Ellamaa, M.; and Roigas, E., 1977, *Festi NSV Teaduste Akad. Toimetised*, v. 26, Biol. ser. (1), 56-63
Trichomonas spp., immunized rabbits, specific complement fixing antibodies, dynamics of induction and disappearance

Immunity, Complement

- Faulk, W. P.; et al., 1978, *Protides Biol. Fluids*, v. 26, 427-430
 several conditions of abnormal pregnancy including 3 patients with *P[lasmodium] falciparum* malaria, deposition of complement components within placenta

Immunity, Complement

- Felgner, P., 1977, *Tropenmed. u. Parasitol.*, v. 28 (4), 491-493
 amebic abscess, human, serodiagnosis, comparison of results using Stick-ELISA (enzyme-linked immunosorbent assay) and those obtained by complement fixation, indirect hemagglutination, counterelectrophoresis, and latex agglutination

Immunity, Complement

- Felgner, P., 1978, *Tropenmed. u. Parasitol.*, v. 29 (4), 417-422
 alveolar and cystic echinococcosis, human, antibody activity in stick-ELISA compared to activity of complement fixation and indirect hemagglutination, no test allowed species specific diagnosis of cystic disease but most alveolar infections could be recognized using homologous antibody and ELISA or complement fixation

Immunity, Complement

- Fesefeldt, C.; and Braveny, I., 1978, *Immun. u. Infekt.*, v. 6 (4), 160-165
Toxoplasma, human, diagnosis, micromethod with stable reagents for indirect hemagglutination test (IHAT), comparison with Sabin-Feldman dye test, complement fixation test, and 2 commercial IHAT kits

Immunity, Complement

- Flemmings, B.; and Diggs, C., 1978, *Infect. and Immun.*, v. 19 (3), 928-933
Trypanosoma rhodesiense, antibody-dependent cytotoxicity against trypanosomes mediated through alternative complement pathway

Immunity, Complement

- Galbraith, R. M.; et al., 1978, *Protides Biol. Fluids*, v. 26, 229-232
P[lasmodium] falciparum, 10 Gambians with pregnancies complicated by maternal malaria, marked increase in complement components in placenta

Immunity, Complement

- Ganguly, N. K.; et al., 1978, *Indian J. Med. Research*, v. 67, 221-226
Entamoeba histolytica, quantitative levels of immunoglobulins (IgG, IgM and IgA) and complement (C3 and CH₅₀) estimated in persons with amoebic abscesses or amoebic colitis, values compared with normal controls, prognostic values of these parameters discussed

Immunity, Complement

- Gerken, S. E.; et al., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (4), 212-217
Schistosoma mansoni, scanning electron microscopy of coarse precipitates formed around cercariae by normal non-inactivated guinea pig serum, phenomenon is directly linked to activity of complement

Immunity, Complement

- Gill, B. S., 1970, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 50 (5), 635-640
Trypanosoma evansi, comparative evaluation of 4 techniques for recovering trypanosomes from rat blood and of 5 methods of preparing antigen for use with complement fixation test using immune and convalescent sera of rabbits

Immunity, Complement

- Gonzalez, E. F.; Long, R. F.; and Todorovic, R. A., 1978, *Am. J. Vet. Research*, v. 39 (9), 1538-1541
Anaplasma marginale, cattle, diagnosis, comparisons of complement-fixation, indirect fluorescent antibody, and card agglutination tests

Immunity, Complement

- Gradkovskaia, N. V.; Gracheva, L. I.; and Shemanova, G. F., 1978, *Zhurnal Mikrobiol., Epidemiol. i Immunol.* (8), 106-109
Toxoplasmosis, human, diagnosis, passive hemagglutination test, antigen preparation, comparison with immunofluorescence and complement fixation tests

Immunity, Complement

- Greenblatt, H. C.; Eveland, L. K.; and Morse, S. I., 1979, *Exper. Parasitol.*, v. 48 (1), 100-108
Schistosoma mansoni, cercarial tail loss in vitro results from antibody-independent activation of serum complement system via alternative pathway

Immunity, Complement

- Greenwood, B. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 378-385
Plasmodium falciparum, children, no evidence that any of several immunological factors investigated plays important role in pathogenesis of anemia

Immunity, Complement

- Guimaraes, M. C. S.; Ribeiro, M. T.; and Camargo, M. E., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (3), 182-190
Trypanosoma cruzi, glycoprotein complex extracted from epimastigotes capable of inhibiting immunofluorescence and hemagglutination tests performed with human sera and forming complement fixing immune complexes with both human and hyperimmune sera

Immunity, Complement

- Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (1-8), 9-47
Fasciola hepatica, structure of 41 antigens, serologic activity in rabbits using 5 tests

Immunity, Complement

- Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (19-28), 285-306
Fasciola hepatica, rabbits, serological response, dynamics in relation to intensity and duration of infection and to superinfection (complement fixation, passive hemagglutination, gel precipitation, and immunoelectrophoresis with various antigens)

Immunity, Complement

- Hammerberg, B.; and Williams, J. F., 1978, *J. Immunol.*, v. 120 (3), 1033-1038
Taenia taeniaeformis, factors present in cystic bladder fluid of metacestodes and released by parasites maintained in vitro are shown to interact nonimmunologically with the complement system in vitro and in vivo, possibility that local consumption of complement around metacestode in vivo could contribute to successful evasion of inflammation and immune rejection during infection

Immunity, Complement

- Hammerberg, B.; and Williams, J. F., 1978, *J. Immunol.*, v. 120 (3), 1039-1045
Taenia taeniaeformis, complement-fixing activity washed from surface of metacestodes and characterized physicochemically, active substance may be polysulfated proteoglycan, location at host-parasite interface may have significance in evasion of immune rejection

Immunity, Complement

- Hess, U.; Eckert, J.; and Frohlich, A., 1974, *Schweiz. Med. Wchnschr.*, v. 104 (24), 853-859
 cystic and alveolar echinococcosis, human, sensitivities of complement-fixation, passive hemagglutination (PH), and indirect fluorescent-antibody (IF) tests compared, simultaneous use of the PH and IF tests recommended

Immunity, Complement

- Hoff, R.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 461-466
Trypanosoma cruzi, rural population, age-specific prevalence rates of parasitemia (detected by blood cultures and xenodiagnosis) vs. seroreactivity (measured by complement fixation and indirect immunofluorescence tests): northeast Brazil

Immunity, Complement

- Hrzenjak, T.; et al., 1977, *Vet. Arhiv, Zagreb*, v. 47 (6), 317-322
Echinococcus granulosus, polyhexosamine ceramide complex antigen isolated from hydatid fluid: use in quantitative complement fixation test with *Echinococcus*-positive human sera; mice sensitized with this antigen, precipitating antibodies

Immunity, Complement

- Huldt, G.; et al., 1979, *Nature, London* (5693), v. 277, 214-216
Entamoeba histolytica activates complement by the alternative pathway and can be lysed by the reaction products, relevance of these observations to pathogenesis of amoebiasis is not yet known

Immunity, Complement

- Jacobson, R. H.; Worley, D. E.; and Hawkins, W. W., 1977, *J. Wildlife Dis.*, v. 13 (3), 323-326
Anaplasma marginale, *Antilocapra americana* not found to be infected, complement fixation test not useful for detection: eastern Montana

Immunity, Complement

- Jira, J.; Barnetova, M.; and Valkoun, A., 1979, *Casop. Lek. Cesk.*, v. 118 (31), 971-975
Toxoplasma gondii, humans, diagnosis, complement fixation with toxoplasmic antigen adapting Takatsy's microtitration system, sensitive and economical

Immunity, Complement

- Jira, J.; Zitova, D.; and Princova, D., 1971, *Folia Parasitol.*, v. 18 (4), 295-302
Toxoplasma gondii, mice (exper.), kinetics of cyst occurrence and production of complement fixing antibodies

Immunity, Complement

- Kassis, A. I.; Warren, K. S.; and Mahmoud, A. A. F., 1979, *J. Immunol.*, v. 123 (4), 1659-1662
Schistosoma mansoni, antibody-dependent complement-mediated killing of schistosomula in intraperitoneal diffusion chambers in mice

Immunity, Complement

- Kay, A. B., 1979, *J. Allergy and Clin. Immunol.*, v. 64 (2), 90-104
Schistosoma mansoni, relationship among mast cell mediators, complement, and preferential killing of schistosomula by the human eosinophil, review; speculations as to why, in phylogeny, humans might have developed and retained acute allergic response

Immunity, Complement

- Kertesz, V.; Roberts, P. W.; and Sharp, P., 1979, *Med. J. Australia*, v. 2 (13), 678-680
 hydatid disease, humans, diagnosis, evaluation of sensitivity and specificity of 3 commonly used serological tests: complement fixation, haemagglutination, and fluorescent antibody techniques

Immunity, Complement

- Kloetzel, J.; and Deane, M. P., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (6), 383-387
Trypanosoma lewisi, *T. cruzi* sensitized with specific antisera and complement, adherence to rat peritoneal cells; adherence is specific, without cross reactions; results suggest that phagocytosis as well as cytophilic antibodies plays a role in immunity

Immunity, Complement

- Kramarova, K., 1979, *Ceskoslov. Epidemiol., Mikrobiol., Immunol.*, v. 28 (6), 366-367
 toxoplasmosis, human, serological diagnosis, comparison of complement fixation reaction and microprecipitation reaction in agar gel

Immunity, Complement

- Krettli, A. U.; Weisz-Carrington, P.; and Nussenzweig, R. S., 1979, *Clin. and Exper. Immunol.*, v. 37 (3), 416-423
Trypanosoma cruzi, in vitro lysis of bloodstream forms mediated by antibodies and complement, strain differences in susceptibility to lysis

Immunity, Complement

- Lalic, R.; Cuperlovic, K.; and Movsesijan, M., 1976, *Acta Vet., Beograd*, v. 26 (2), 69-75
Fasciola hepatica, rabbits immunized with secretory/excretory antigen, antibodies detected with complement fixation, precipitation, and fluorescent antibody tests, immunologically identical antibodies found after infection

Immunity, Complement

- Leventhal, R.; et al., 1978, *Clin. and Exper. Immunol.*, v. 32 (1), 69-76
Ascaris suum, role of complement in histopathology of primary and challenge infections in guinea pigs, enhanced pulmonary eosinophilic infiltration and eosinophilic granuloma formation in absence of complement (C3 to C9)

Immunity, Complement

- Lindsley, H. B.; Nagle, R. B.; and Stechschulte, D. J., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 864-872
Trypanosoma rhodesiense-infected rats, proliferative glomerulonephritis, hypocomplementemia, nucleic acid antibodies, feasibility of rat as model host

Immunity, Complement

- Lopes, E. R.; et al., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (2), 57-59
 Chagas disease, results of complement fixation and hemagglutination tests compared using pericardial fluid from autopsy cases with chronic cardiomyopathy

Immunity, Complement

- Lopes, E. R.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 244-246
Trypanosoma cruzi, human, post-mortem diagnosis of chronic Chagas disease, evaluation of 3 serological tests on pericardial fluid (haemagglutination, fluorescent antibody, and complement fixation)

Immunity, Complement

- Lopez V., G.; and Todorovic, R. A., 1978, *Vet. Parasitol.*, v. 4 (1), 1-9
Babesia argentina, cattle (nat. and exper.), diagnosis by rapid latex agglutination test applicable in field, specificity relative to infections with *Babesia bigemina* and *Anaplasma marginale*, comparison of results with complement fixation and indirect fluorescent antibody tests

Immunity, Complement

- Luzzio, A. J.; McRoberts, M. J.; and Euliss, N. H., 1979, *J. Infect. Dis.*, v. 140 (3), 370-377
Leishmania spp., immunized rabbits, infected hamsters (exper.), and humans, quantitative estimation of antibody titers by enzyme-linked immunosorbent assay, some comparisons with passive hemagglutination, complement fixation, and counter-current immunoelectrophoresis

Immunity, Complement

- Mackenzie, C. D.; Preston, P. M.; and Ogilvie, B. M., 1978, *Nature*, London (5690), v. 276, 826-828
Trichinella spiralis, *Nippostrongylus brasiliensis*, surface of infective larvae and adults may activate complement but not that of newborn larvae, stage-specific antibodies to nematode cuticle are capable of mediating attack by inflammatory cells against nematode surface

Immunity, Complement

- McLaren, D. J.; and Ramalho-Pinto, F. J., 1979, *J. Immunol.*, v. 123 (4), 1431-1438
Schistosoma mansoni, eosinophil-mediated killing of schistosomula in vitro, synergistic effect of antibody and complement

Immunity, Complement

- McLaren, D. J.; Ramalho-Pinto, F. J.; and Smithers, S. R., 1978, *Parasitology*, v. 77 (3), 313-324
Schistosoma mansoni, ultrastructural evidence for complement and antibody-dependent damage to schistosomula by rat eosinophils in vitro

Immunity, Complement

- Madwar, M. A.; et al., 1978, *Clin. and Exper. Immunol.*, v. 34 (3), 354-358
Schistosoma mansoni, *S. haematobium*, humans, concentrations of complement components and immunoglobulins in sera, implications for immunopathological effects of schistosomiasis and for heterogeneity of antigen clearance

Immunity, Complement

- Mak, J. W.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 395-399
Brugia malayi, and *Wuchereria bancrofti*, humans, immunoglobulin levels and complement components determined in populations in various endemic areas in Peninsular Malaysia

Immunity, Complement

- Mannweiler, E.; et al., 1978, *Deutsche Med. Wchnschr.*, v. 103 (40), 1562-1565
Trichinella spiralis, serum antibody findings in humans who had eaten wild boar meat, complement fixation, indirect haemagglutination, and ELISA tests

Immunity, Complement

- Mannweiler, E.; Feigler, P.; and Lederer, I., 1979, *Deutsche Med. Wchnschr.*, v. 104 (32), 1139-1142
Echinococcus cysticus, *Echinococcus alveolaris*, humans, serum antibodies, complement fixation, indirect haemagglutination, and indirect enzyme immune (ELISA) techniques

Immunity, Complement

- Mannweiler, E.; and Lederer, I., 1978, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 240 (3), 403-408
Eutamoeba histolytica, humans, diagnostic value of counter-immunoelectrophoresis in comparison to complement fixation, indirect haemagglutination, and latex agglutination tests

Immunity, Complement

- Mannweiler, E.; Lederer, I.; and zum Felde, I., 1978, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 240 (3), 397-402
Leishmania donovani-infected humans, increased IgG levels, *L. donovani*, *L. brasiliensis*, and *L. tropica* antigens used in comparison of immunological diagnostic methods studying antibody titers, indirect haemagglutination test unsuitable for diagnosis

Immunity, Complement

- Martin, H.; and Michalik, M., 1977, *Psychiat. Neurol. u. Med. Psychol.*, v. 29 (2), 87-95
 human neurocysticercosis, 3 case reports with autopsy findings of severe meningitis and hydrocephalus, clinical aspects, recommendations for use of complement fixation for reliable diagnosis

Immunity, Complement

- Menzel, S.; and Bienzle, U., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 194-197
Leishmania tropica, humans with recent primary exposure, fluorescent antibody test detected antibodies to *L. donovani* in 19 of 41 individuals, complement fixation and indirect hemagglutination tests were not useful for diagnosis

Immunity, Complement

- Minami, T.; et al., 1979, Vet. Parasitol., v. 5 (1), 29-38
Babesia bigemina and Japanese *Babesia* species can be serologically differentiated by the complement fixation and capillary-tube agglutination tests

Immunity, Complement

- Miron, C. A., 1978, Agric. El Salvador, v. 17 (1), 12-24
 anaplasmosis, bovine, prevalence, complement fixation test, no difference in regard to age, sex or breed of host: San Miguel, El Salvador

Immunity, Complement

- Nielsen, K.; et al., 1978, Experientia, v. 34 (1), 118-119
Trypanosoma lewisi-infected or de complemented rats, increased susceptibility to *Salmonella typhimurium* infection; de complemented rats subsequently infected with *T. lewisi* developed higher blood parasitemia than did normal *T. lewisi*-infected rats

Immunity, Complement

- Nielsen, K.; et al., 1978, Immunology, v. 35 (5), 811-816
Trypanosoma congolense-infected calves, changes in catabolism of serum immunoglobulins and complement components, possible relationship to pathological changes

Immunity, Complement

- Nielsen, K.; et al., 1978, Immunology, v. 35 (5), 817-826
Trypanosoma congolense-infected calves, changes in serum immunoglobulins, complement, and complement components

Immunity, Complement

- Nielsen, K.; et al., 1978, J. Parasitol., v. 64 (3), 544-546
Trypanosoma congolense, *T. lewisi*, direct activation of complement

Immunity, Complement

- Nielsen, K.; et al., 1978, Canad. J. Comp. Med., v. 42 (1), 74-79
Trypanosoma lewisi, complement activating factor(s), physiochemical characteristics of active components (carbohydrate-containing substance and lipid, possibly glyco lipid)

Immunity, Complement

- Oelerich, S., 1977, Tropenmed. u. Parasitol., v. 28 (4), 539-544
Paragonimus uterobilateralis, *P. africanus*, *Macaca mulatta* (exper.), serological changes (indirect hemagglutination, complement fixation, double gel diffusion), cross-reactions occurred but species could be differentiated by disc-electrophoresis; supplemented by parasitologic and radiologic observations of other authors

Immunity, Complement

- Onyewotu, I. I., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 386-388
 circulating immune complexes in 38 of 50 apparently healthy Nigerians, 6 of these 38 had significant anti-complementary activity and high IgM levels, 5 of these 6 showed malarial parasitemia, 4 of these 5 after malarial prophylaxis lost their anti-complementary activity with parallel fall in IgM

Immunity, Complement

- Ortiz-Ortiz, L.; et al., 1978, Clin. and Exper. Immunol., v. 34 (1), 10-18
Entamoeba histolytica, mechanism by which trophozoites are destroyed by normal human serum is complement-dependent process activated by alternative pathway

Immunity, Complement

- Parker, R.; Parker, M. L.; and Wilson, A. J., 1978, Research Vet. Sc., v. 25 (3), 401-402
Anaplasma marginale complement fixation test antigens, liquid nitrogen storage by a multiple small aliquot technique

Immunity, Complement

- Prata, A.; et al., 1975, Rev. Patol. Trop., v. 4 (1), 35-38
Trypanosoma cruzi, diagnosis using complement fixation, results of tests from 3 different laboratories were compared and found to have substantial differences, study shows need for standardization of reagents and techniques

Immunity, Complement

- Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (5), 459-466
Nematospiroides dubius, cuticle of infective 3rd stage larvae (L3) as well as post-infective and mature forms can activate serum complement via alternative pathway, adherence of mouse peritoneal exudate cells from immune mice to L3 promoted by either complement or antibody resulted in reduced larval infectivity

Immunity, Complement

- Ramalho-Pinto, F. J.; De Rossi, R.; and Smithers, S. R., 1979, Parasite Immunol., v. 1 (4), 295-308
Schistosoma mansoni, mice, anti-schistosomula antibodies and IgG subclasses involved in complement- and eosinophil-mediated killing of schistosomula in vitro

Immunity, Complement

- Ramalho-Pinto, F. J.; McLaren, D. J.; and Smithers, S. R., 1978, J. Exper. Med., v. 147 (1), 147-156
Schistosoma mansoni, complement-mediated killing of schistosomula by rat eosinophils in vitro

Immunity, Complement

- Ranque, J.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 579-584
Leishmania donovani, humans, canines, sero-immunological diagnosis, review

Immunity, Complement

- Ray, D.; and Saha, K., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 503-507
 tropical pulmonary eosinophilia, human, serum immunoglobulin and complement levels, correlation with primary and relapsing stages of illness: India

Immunity, Complement

- Rezai, H. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1079-1083
 kala-azar, children, serum immunoglobulin and complement levels, percentage of T and B cells, skin reactivity to *Leishmania* antigen

Immunity, Complement

- Rickman, W. J.; and Cox, H. W., 1979, J. Parasitol., v. 65 (1), 65-73
 Trypanosoma brucei rhodesiense-infected rats, syndrome characterized by anemia, splenomegaly, and glomerulonephritis, accompanied by presence of 3 autoantibodies and by presence of fixed complement and fibrinogen on trypanosomes and erythrocytes

Immunity, Complement

- Rifkin, M. R., 1978, Exper. Parasitol., v. 46 (2), 189-206
 Trypanosoma brucei, cytotoxic reaction induced by normal human serum, some properties of the trypanocidal factor, complement activation not required

Immunity, Complement

- Rivas, A.; Rodriguez, O. N.; and Espaine, L., 1977, Rev. Cubana Cien. Vet., v. 8 (1), 1-11
 Babesia argentina, B. bigemina, bovine, complement fixation and immunofluorescence tests evaluated: Cuba

Immunity, Complement

- Rivas, A.; Rodriguez, O. N.; and Espaine, L., 1977, Rev. Cubana Cien. Vet., v. 8 (1), 13-20
 Anaplasma marginale, bovine, immunofluorescence and complement fixation tests evaluated: Cuba

Immunity, Complement

- Rodriguez, O. N.; et al., 1977, Rev. Cubana Cien. Vet., v. 8 (2), 1-7
 Babesia argentina, B. bigemina, bovine, complement fixation test evaluated

Immunity, Complement

- Rodriguez, O. N.; et al., 1977, Rev. Cubana Cien. Vet., v. 8 (2), 9-12
 anaplasmosis, bovine, diagnosis by complement fixation in perspex plates

Immunity, Complement

- Rodriguez, O. N.; et al., 1978, Rev. Cubana Cien. Vet., v. 9 (1), 87-94
 Anaplasma marginale, Babesia argentina, B. bigemina, cattle of different breeds, serodiagnosis, complement fixation and capillary agglutination microtechniques: Cuba

Immunity, Complement

- Rose, J. E.; Amerault, T. E.; and Roby, T. O., 1979, Am. J. Vet. Research, v. 40 (3), 421-422
 complement activity and conglutinin activity, preservation in bovine sera stored under 4 conditions, freezing at -57 C most effective

Immunity, Complement

- Saathoff, M.; Kasper, M.; and Demmer, H., 1978, Deutsche Med. Wchnschr., v. 103 (41), 1606-1608, 1609-1611
 Trichinella spiralis, humans, animals, diagnosis, sensitivity and specificity of 4 different serological tests, serologic differentiation from some other helminth infections with which cross-reactions occur

Immunity, Complement

- Saha, K.; et al., 1979, Indian J. Med. Research, v. 70, 22-32
 parasitic diseases, human, serum immunoglobulin and complement profile: India

Immunity, Complement

- Salgado, A. de A.; Mayrink, W.; and Dias, J. C. P., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (1), 36-40
 Chagas disease, xenodiagnosis and complement fixation test compared: district of Bambui, Minas Gerais, Brazil

Immunity, Complement

- Santoro, F.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (3), 152-156
 Schistosoma mansoni, humans, mice, sera tested for immune complexes using precipitation by polyethylene glycol and complement fixation test

Immunity, Complement

- Santoro, F.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 39-42
 Schistosoma mansoni, characterization of complement fractions, inversely proportional correlation between C₃ and immune-complex levels in serum of infected patients

Immunity, Complement

- Santoro, F.; et al., 1979, J. Immunol., v. 123 (4), 1551-1557
 Schistosoma mansoni, activation of complement by schistosomula: killing of parasites by alternative pathway and requirement of IgG for classical pathway activation

Immunity, Complement

- Santoro, F.; Bernal, J.; and Capron, A., 1979, Acta Trop., v. 36 (1), 5-14
 complement activation by parasites, review

Immunity, Complement

- Santoro, F.; Bout, D.; and Capron, A., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (5), 293-297
 Schistosoma mansoni, humans, immune complexes higher in sub-clinical and hepato-intestinal forms than in hepatosplenic forms, detection by precipitation, radioimmunoassay and complement fixation compared

Immunity, Complement

- Santoro, F.; Ouassiss, M. A.; and Capron, A., 1979, IRCS J. Med. Sc., v. 7 (11), 576
 Schistosoma mansoni immature forms, surface receptors for complement (C1q and C3b) which disappear with development

Immunity, Complement

- dos Santos, R. R.; Amato Neto, V.; and Gioia, I., 1975, Rev. Goiana Med., v. 21 (1-2), 23-27
 Leptomonas pessoai antigens and sera of patients infected with Trypanosoma cruzi gave frequent positive reactions with the passive hemagglutination, complement fixation and indirect immunofluorescence tests, possible implications for prophylactic vaccine for Chagas disease

Immunity, Complement

- Shaker, Z. A.; et al., 1976, Egypt. J. Bilharz., v. 3 (2), 221-232
 Schistosoma mansoni, S. haematobium, humans, demonstration of circulating bilharzial antigens using indirect haemagglutination and complement fixation techniques, correlation between % of positive cases and host age, duration of infection, clinical presentation, schistosome species, intradermal test results, and effect of chemotherapy

Immunity, Complement

Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1978, *Internat. J. Parasitol.*, v. 8 (1), 45-53

Taenia crassiceps, mice, ultrastructural aspects of early immune damage to metacestodes, tegument damage is attributed to complement-mediated lysis of outer tegument membrane and death of larvae probably results from loss of tegument function

Immunity, Complement

de Siqueira, A. F.; Ferriolli Filho, F.; and Ribeiro, R. D., 1979, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 12 (1), 75-79

Trypanosoma cruzi-infected rats, early immune reactions suggest relationship between circulation of antigens, formation of antigen-antibody complexes, and the fixation of complement by these complexes

Immunity, Complement

Staak, C.; and Lohding, A., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 13-18

Trypanosoma spp., evaluation of complement fixation antibody in African trypanosomiasis-infected cattle before and after treatment and followed by re-infection and treatment; applications for field studies

Immunity, Complement

Stankiewicz, M., 1970, *Acta Parasitol. Polon.*, v. 18 (27-41), 463-472

Strongyloides papillosus, sheep, complement fixing and precipitating antibodies after infection and re-infections

Immunity, Complement

Stemberger, H., 1978, *Immun. u. Infekt.*, v. 6 (2), 71-78

E[ntamoeba] histolytica, investigation of cytolytic action of antibody, complement, and normal human peripheral blood lymphocytes as well as action of peripheral blood lymphocytes from donor with amoebic liver abscess

Immunity, Complement

Stevens, D. R.; and Moulton, J. E., 1978, *Infect. and Immun.*, v. 19 (3), 972-982

Trypanosoma brucei, phagocytosis by mouse peritoneal macrophages, ultrastructural and immunological aspects, results indicate that both specific antibody and complement contribute to ingestion of trypanosomes by activated macrophages but that parasite antigenic variation effectively abrogates phagocytic defense mechanism

Immunity, Complement

Storni, P.; et al., 1979, *Rev. Asoc. Bioquim. Argent.* (237), v. 43, 69-77

T[rypanosoma] cruzi, soldiers from 4 different provinces in 3 different years, prevalence of infection, correlation between different serodiagnostic methods: northeastern Argentina

Immunity, Complement

Stroczynska-Sikorska, M.; and Sikorski, R., 1979, *Ginekol. Polska*, v. 50 (12), 993-1002

toxoplasmosis, prophylactically treated-pregnant women, pre- and post-treatment evaluation by complement fixation, determination of pregnancy complications, premature, and stillborn infants: Poland

Immunity, Complement

Taguri, S.; and Dar, F. K., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 338-341

hydatid disease, human, differential diagnosis from cancer on basis of blood values and liver function tests, comparison of 3 immunodiagnostic tests (intradermal, complement fixation, indirect haemagglutination), usefulness of post-operative serological surveillance: Libya

Immunity, Complement

Tandon, A.; Zahner, H.; and Laemmler, G., 1979, *Tropenmed. u. Parasitol.*, v. 30 (2), 189-193

Chagas' disease, human serum, new method for estimation of complement fixing antibodies (complement-enzyme linked immuno sorbent assay or CELISA) compared with haemolytic complement fixation, indirect haemagglutination, and ELISA

Immunity, Complement

Tavarez, C. A. P.; et al., 1978, *Exper. Parasitol.*, v. 46 (2), pp. 145-151

Schistosoma mansoni, complement-mediated cytotoxic activity in vitro and effect of decompensation on acquired immunity in mice, results strongly suggest that complement system is one of effector mechanisms in concomitant immunity in schistosomiasis

Immunity, Complement

Tewari, H. C.; and Singh, (Kr.) S., 1979, *Indian J. Animal Sc.*, v. 49 (8), 643-645

Schistosoma incognitum miracidia, effects of normal and immune sera and of complement

Immunity, Complement

Thomas, V.; Ogunba, E. O.; and Fabiyi, A., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (5), 451-456

Schistosoma mansoni, *S. haematobium*, humans, evaluation of seroimmunologic techniques (indirect fluorescent antibody, complement fixation and counter-current immunoelectrophoresis) for diagnosis; cross reactions were consistently present so that it was not possible to differentiate between the parasites: Nigeria

Immunity, Complement

Torpier, G.; Ouassini, M. A.; and Capron, A., 1979, *J. Ultrastructure Research*, v. 67 (3), 276-287

Schistosoma mansoni, immune-induced membrane alterations, freeze-fracture study, complement-dependent damage in presence of antisera to host antigenic determinants

Immunity, Complement

Tos-Luty, S., 1971, *Acta Parasitol. Polon.*, v. 19 (9-18), 205-225

Toxoplasma gondii tissue antigens more sensitive than exudate-antigens in complement fixation test using human, rat, and rabbit sera

Immunity, Complement

Tribouley, J.; et al., 1978, *Ann. Parasitol.*, v. 53 (1), 21-31

toxoplasmosis, human, seroepidemiologic survey, complement fixation and passive haemagglutination tests, age of host, possible sources of infection: Guadeloupe; Martinique

- Immunity, Complement
Verroust, P. J.; et al., 1979, *Kidney Internat.*, v. 16 (1), 9-14
schistosomiasis, filariasis, hydatidosis, human, circulating immune complexes, C3d levels, complement activation by parasite antigens
- Immunity, Complement
Wikel, S. K., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 586-590
Dermacentor andersoni, C4-deficient guinea pigs with total deficiency in classical pathway of complement activation but with intact alternate pathway display tick resistance after one infestation
- Immunity, Complement
Williamson, W. A.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (6), 676-677
Plasmodium falciparum, children, hypocomplementaemia may be severe during acute infections but is only transient
- Immunity, Complement
Wilson, A. J.; et al., 1978, *Austral. Vet. J.*, v. 54 (8), 383-386
Anaplasma marginale, cattle, comparison of 4 serological tests for detection of humoral antibodies (capillary agglutination, complement fixation, plate agglutination, and indirect fluorescent antibody)
- Immunity, Complement
Woo, P. T. K.; and Kobayashi, A., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (1), 37-45
Trypanosoma brucei-infected rabbits, postulation on mechanism of anemia (that red blood cells are coated on surface by trypanosome antigen-antibody complexes and that these cells under certain conditions are lysed by complement or agglutinated and removed by spleen)
- Immunity, Complement
Zapart, W., 1970, *Acta Parasitol. Polon.*, v. 18 (1-12), 7-23
Ascaris suum, guinea pigs, rabbits, complement fixation test, ring precipitation test, comparison of results using whole antigen vs. antigens fractionated by 2 different methods
- Immunity, Complement
Zapart, W., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 209-220
Ascaris suum, evaluation of 5 antigens prepared by different methods of fractionation (agar-gel precipitation, immunoelectrophoresis, complement fixation, and ring precipitation tests), chromatography and chemical analysis of different antigens
- Immunity, Complement
Zylberait, D.; et al., 1979, *Ann. Med. Int. Paris*, v. 130 (10), 437-442
kala azar, woman, hemolytic anemia, possible abnormal sensitivity of erythrocyte membrane to complement
- Immunity, Complement
Zyngier, F. R., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (6), 427-432
Ascaris suum and Toxocara canis, rabbits and Rhesus monkeys, diagnosis using T. canis antigen for complement fixation, passive haem-agglutination, and immunodiffusion tests, extensive cross-reactivity
- Immunity, Congenital. See Immunity, Native; Immunity, Passive.
- Immunity, Cross-immunity. See Immunity, Cross-reactions.
- Immunity, Cross-reactions
Afchain, D.; et al., 1979, *J. Parasitol.*, v. 65 (4), 507-514
Trypanosoma cruzi culture forms, antigenic make-up, comparison with salivarian and some other stercorarian trypanosomes and Leishmania using immunoprecipitation in gels and immunoelectrophoresis, identification of component specific to T. cruzi
- Immunity, Cross-reactions
Agrawal, M. C.; Sahasrabudhe, V. K.; and Gehlot, K., 1979, *Indian Vet. J.*, v. 56 (8), 682-685
mice, immunization against Schistosoma incognitum by administration of cercariae of S. indicum
- Immunity, Cross-reactions
Alexander, J.; and Phillips, R. S., 1978, *Exper. Parasitol.*, v. 45 (1), 93-100
Leishmania tropica major and L. mexicana, cross-immunity in mice, first reported observation of less virulent Leishmania species being able to confer immunity against a more virulent species
- Immunity, Cross reactions
Amato Neto, V.; da Silva, L. J.; and Camargo, M. E., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (2), 99-102
serodiagnostic tests for Chagas disease performed on sera of patients with visceral leishmaniasis gave positive results with several immunologic methods, indicates "group-reactions" within Trypanosomatidae
- Immunity, Cross-reactions
Andrade, S. G.; et al., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (6), 395-402
Trypanosoma cruzi, mice with chronic infection with Colombian strain, inoculation with virulent Y strain, results demonstrate that chronic infection produces partial immunity and that co-existence of parasite strains is possible
- Immunity, Cross-reactions
Anthony, R. L.; Johnson, C. M.; and Sousa, O. E., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 969-973
Trypanosoma cruzi, T. rangeli, Panamanian villagers, diagnosis, micro-enzyme-linked immunosorbent assay, some serologic cross-reactivity between 2 species; comparison with complement fixation, direct agglutination, and clinical diagnosis
- Immunity, Cross-reactions
Au, A. C. S.; and Ko, R. C., 1979, *Ztschr. Parasitenk.*, v. 59 (2), 161-168
Trichinella spiralis, Angiostrongylus cantonensis, cross-resistance in laboratory rats
- Immunity, Cross-reactions
Barbet, A. F.; and McGuire, T. C., 1978, *Proc. National Acad. Sci.*, v. 75 (4), 1989-1993
Trypanosoma brucei, T. congolense, crossreacting determinants in variant-specific surface antigens

Immunity, Cross-reactions

Bickle, Q. D.; et al., 1979, *Parasitology*, v. 78 (2), 185-193

Schistosoma mattheei, sheep, duration of resistance following homologous vaccination with irradiated *Schistosoma*; heterologous vaccination with *Schistosoma mattheei* against challenge with *S. bovis* and with *S. mansoni* against *S. mattheei* failed to induce protection

Immunity, Cross-reactions

Campbell, N. J.; Dineen, J. K.; and Kelly, J. D., 1979, *Research Vet. Sc.*, v. 26 (3), 391-393

effect of *Taenia hydatigena* infection on existing and concurrent infections of *Fasciola hepatica* in sheep

Immunity, Cross-reactions

Campbell, N. J.; Kelly, J. D.; and Martin, I. C. A., 1979, *Internat. J. Parasitol.*, v. 9 (5), 469-474

Taenia taeniaeformis, *Fasciola hepatica*, rats, homologous resistance and cross resistance

Immunity, Cross-reactions

Chang, S. M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (5), 845-853

Entamoeba histolytica, antigenic analysis of 2 strains (HT-31 and HK-9) by 2-dimensional immunoelectrophoresis, cross-reactions showed large number of shared antigens between strains

Immunity, Cross-reactions

Chisholm, E. S.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (1, pt. 1), 14-19

Babesia microti, human, diagnosis, indirect immunofluorescent antibody test is sensitive, specific, and reproducible; cross-reactivity did occur with other *Babesia* spp. and with *Plasmodium* spp.

Immunity, Cross-reactions

Corradi, J. C., 1979, *Acta Biochim. Clin. Latinoam.*, v. 13 (3), 277-281

sera positive for Chagas-Mazza or toxoplasmosis or both, adsorption with 3 lines of *Trypanosoma cruzi*, immunofluorescent titers, no cross reactions between *T. cruzi* and toxoplasmosis: Provincia de San Luis

Immunity, Cross-reactions

Cox, F. E. G., 1977, *Protozoology*, v. 3, 129-134

Trypanosoma musculi, *T. b. brucei*, *Babesia microti*, mice, interactions between parasites

Immunity, Cross reactions

Cox, F. E. G., 1978, *Parasitology*, v. 76 (1), 55-60

Plasmodium vinckei, *Babesia microti*, heterologous immunity, simultaneous elimination of the two species from blood of doubly infected mice

Immunity, Cross-reactions

Cross, G. A. M., 1979, *Nature*, London (5694), v. 277, 310-312

Trypanosoma brucei, crossreacting determinants in C-terminal region of variant surface antigens

Immunity, Cross-reactions

Decker-Jackson, J. E.; and Honigberg, B. M., 1978, *J. Protozool.*, v. 25 (4), 514-525

Leishmania donovani, antigenically active glycoproteins released by parasites: immunologic properties and relationships with *Mycobacterium* antigens and human red cell antigens; preliminary biochemical analysis; possible involvement in pathogenesis of kala azar

Immunity, Cross-reactions

Dikovskaia, V. E., 1974, *Parazitologiya*, Leningrad, v. 8 (6), 548-552

Eimeria tenella, 13 strains, intraspecific variability with respect to virulence, reproductive capability, and immunogenic properties: USSR

Immunity, Cross-reactions

Dineen, J. K.; Kelly, J. D.; and Campbell, N. J., 1978, *Internat. J. Parasitol.*, v. 8 (3), 173-176

Fasciola hepatica, nature and characteristics of cross protection produced in sheep by infection with *Cysticercus tenuicollis*, mechanism unknown, may be immunological

Immunity, Cross-reactions

Dubey, J. P., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 380-382

Toxoplasma gondii, chronically infected cats re-excreted *T. gondii* oocysts after superinfection with *Isospora felis*, this re-excretion was prevented in cats infected with *I. felis* before *T. gondii* infection, administration of BCG before *Toxoplasma* infection had no apparent effect on outcome of infection

Immunity, Cross-reactions

Dubey, J. P., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 382-384

Hammondia hammondi, *Besnoitia jellisoni*, *Toxoplasma gondii*, BCG, comparison of cross-protection in hamsters

Immunity, Cross-reactions

Dusanic, D. G., 1979, *Internat. J. Parasitol.*, v. 9 (6), 577-583

Trypanosoma lewisi, rats, *Trypanosoma musculi*, mice, precipitin responses of immune hosts repeatedly infected, antigenic relationships of these 2 trypanosome species, microimmunodiffusion, crossed immunoelectrophoresis (CIE), and tandem CIE analyses

Immunity, Cross-reactions

Frenkel, J. K.; and Caldwell, S. A., 1975, *J. Infect. Dis.*, v. 131 (3), 201-209

Toxoplasma gondii, *Besnoitia jellisoni*, *Listeria*, and virus infections in mice and hamsters, challenge with homologous and heterologous species, components of specific immunity and nonspecific resistance

Immunity, Cross-reactions

Garkavi, B. L., 1974, *Parazitologiya*, Leningrad, v. 8 (4), 299-301

Trichinella spiralis, *T. pseudospiralis*, cross immunity in mice and rats

Immunity, Cross-reactions

- Guimaraes, M. C. S.; Giovannini, V. L.; and Camargo, M. E., 1974, *Rev. Inst. Med. Tron. S. Paulo*, v. 16 (3), 145-148
mucocutaneous leishmaniasis immunofluorescence test using in vitro grown strain of *L[ishmania] braziliensis*, antigen standardization, cross reactions with Chagas disease and kala-azar sera

Immunity, Cross-reactions

- Halawani, A. A.; Farag, H. F.; and Awadalla, H. N., 1977, *Tropenmed. u. Parasitol.*, v. 28 (4), 478-480
Schistosoma haematobium-infected mice challenged with *S. mansoni*, changes in egg-distribution sites, cross-mating, complete absence of cross-immunity

Immunity, Cross-reactions

- Han, T. W., 1978, *Research Rep., Office Rural Develop., Min. Agric. and Fish., Korea*, v. 20, 53-88
theileriosis, cattle, historical review, seasonal and host age incidence, duration of parasitaemia, relapse time; transmission of *Theileria* sp. to cattle using *Boophilus microplus* and *Haemaphysalis longicornis*; pathogenicity and immunogenicity of Korean and Japanese strains of *T. sergenti* compared: Korea

Immunity, Cross-reactions

- Hayunga, E. G.; et al., 1979, *J. Parasitol.*, v. 65 (4), 497-506
Schistosoma mansoni, antigenicity of radio-labeled surface proteins from adult worms, immunoprecipitation with infected serum, cross-reaction with anti-*Schistosoma haematobium* and anti-*Schistosoma japonicum* serum

Immunity, Cross reactions

- Heath, D. D., 1978, *Vet. Parasitol.*, v. 4 (1), 11-19
Taenia hydatigena, neonatal lambs, subcutaneous injection of viable eggs induced 100% protection against development of viable larvae from oral challenge but no protection against simultaneous infection with eggs of *Taenia ovis* and *Echinococcus granulosus*, maternally derived immunity was not enhanced by hyperimmunization of ewe but did not interfere with development of protection in immunized lambs, immunizing lesion regressed rapidly after treatment of lambs with mebendazole

Immunity, Cross-reactions

- Hillyer, G. V., 1979, *Exper. Parasitol.*, v. 48 (2), 287-295
Fasciola hepatica, complexity of adult worm antigens, cross-reactivity with sera to *Schistosoma mansoni* and *Schistosoma japonicum*, presence of one common antigen between the two genera, protection of mice immunized with *Fasciola hepatica* antigens to challenge exposure with *Schistosoma mansoni* cercariae

Immunity, Cross-reactions

- Hillyer, G. V.; and Gomez de Rios, I., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 237-241
Schistosoma mansoni, humans, mice, immunodiagnosis, enzyme-linked immunosorbent assay using soluble egg antigens, extensive cross-reactivity when using sera from subjects with other helminthiases

Immunity, Cross-reactions

- Hillyer, G. V.; Pelley, R. P.; and del Llano de Diaz, A., 1979, *J. Parasitol.*, v. 65 (1), 55-60
Fasciola hepatica, solubilization of antigens which are reactive with anti-*Schistosoma mansoni* antiserum

Immunity, Cross-reactions

- Hillyer, G. V.; and Sagramoso de Ateca, L., 1979, *Infect. and Immun.*, v. 26 (3), 802-807
Fasciola hepatica antigens which induce cross-protection against *Schistosoma mansoni*, isolation by concanavalin A affinity chromatography, properties

Immunity, Cross-reactions

- Hughes, D. L.; Harness, E.; and Doy, T. G., 1978, *Research Vet. Sc.*, v. 25 (3), 356-359
Taenia hydatigena, goats, sheep, cattle (all exper.), challenged orally with *Fasciola hepatica* metacercariae, showed no evidence of resistance

Immunity, Cross-reactions

- Kaliraj, P.; Ghirnikar, S. N.; and Harinath, B. C., 1979, *Indian J. Exper. Biol.*, v. 17 (4), 332-335
Bancroftian filariasis, human, immunodiagnosis, indirect fluorescent antibody technique using sonicated microfilariae of *Wuchereria bancrofti*, *Brugia malayi*, or *Dirofilaria immitis*; apparent cross reactions with sera from people with intestinal helminth infections

Immunity, Cross-reactions

- Kitani, K.; Miura, R.; and Iuchi, M., 1979, *Tohoku J. Exper. Med.*, v. 127 (2), 151-156
Schistosoma japonicum, humans with chronic infections, skin tests with *S. mansoni* and *S. japonicum* antigens both gave high degree of positive results indicating definite cross-reactivity

Immunity, Cross-reactions

- Kloetzel, J.; and Deane, M. P., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (1), 31-36
Trypanosoma cruzi, T. lewisi, cross-immunity studies in young mice and rats

Immunity, Cross-reactions

- Knell, J. D.; and Zam, S. G., 1978, *J. Invert. Path.*, v. 31 (3), 280-288
Nosema spp., double immunodiffusion techniques used to investigate taxonomic relationships between 6 different microsporidian isolates

Immunity, Cross-reactions

- Latif, B. M. A.; Al-Shenawi, F. A.; and Al-Alousi, T. I., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (1), 31-35
kala-azar in children, indirect fluorescent antibody test used for diagnosis and to differentiate *Leishmania donovani* from *Leishmania tropica*, cross-reactivity of *Leishmania donovani* antigen with antisera of other parasitic infections studied

Immunity, Cross-reactions

- Liston, A. J.; Baker, J. R.; and Selden, L. F., 1977, *J. Gen. Microbiol.*, v. 98 (2), 615-617
Trypanosoma dionisii, *T. vespertilionis*, immunized mice, delayed-type hypersensitivity footpad response to homologous or heterologous species

Immunity, Cross-reactions

- Long, P. L.; and Millard, B. J., 1979, *Parasitology*, v. 78 (1), 41-51
Eimeria dispersa, isolation from turkeys in Britain, life cycle and reproduction, cross-protection against American strain, electrophoretic analysis of enzymes, host specificity studies, in vitro growth studies, gross pathology, pathogenicity, immunogenicity

Immunity, Cross-reactions

- Long, P. L.; and Millard, B. J., 1979, *Parasitology*, v. 79 (3), 451-457
Eimeria maxima, immunological differences between laboratory strains and field isolates
 effect of mixed immunizing inoculum on heterologous challenge

Immunity, Cross reactions

- Lopez V., G.; and Todorovic, R. A., 1978, *Vet. Parasitol.*, v. 4 (1), 1-9
Babesia argentina, cattle (nat. and exper.), diagnosis by rapid latex agglutination test applicable in field, specificity relative to infections with *Babesia bigemina* and *Anaplasma marginale*, comparison of results with complement fixation and indirect fluorescent antibody tests

Immunity, Cross-reactions

- McHardy, N.; and Elphick, J. P., 1978, *Internat. J. Parasitol.*, v. 8 (1), 25-31
Trypanosoma cruzi, mice, cross-immunization between 5 parasite strains using freeze-thawed vaccines containing epimastigotes of 1, 2, 3, or 5 strains, all except one of single-strain vaccines gave good protection against both homologous and heterologous challenges, inclusion of more than one strain in vaccine failed to increase protection and in some instances appeared to reduce it

Immunity, Cross-reactions

- Mahoney, D. F.; et al., 1979, *Internat. J. Parasitol.*, v. 9 (4), 297-306
Babesia bovis, immune response in *Bos taurus* studied using passive transfer of serum from immune animals, results suggest effector mechanism is mediated by strain-specific antibody

Immunity, Cross reactions

- Markiw, M. E.; and Wolf, K., 1978, *J. Fish. Research Bd. Canada*, v. 35 (6), 828-832
Myxosoma cerebralis, rabbits immunized with antigens extracted from mature spores or pre-spore stages, antisera and globulins used in fluorescent antibody techniques, direct fluorescent antibody test showed higher specificity than indirect FAT in cross reactions with other species of myxosporidians

Immunity, Cross-reactions

- Mayrink, W.; et al., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (1), 50-53
 kala-azar patient serum gives positive reactions in complement fixation reaction using BCG antigen, purification of BCG antigenic fractions related to *Leishmania donovani*

Immunity, Cross-reactions

- Mendes, N. F.; et al., 1979, *Transplant. Proc.*, v. 11 (2), 1304-1305
 cross-reactions between *Trypanosomatidae* cell extracts and HLA antigens

Immunity, Cross-reactions

- Michael, A. I.; Awadalla, H. N.; and Farag, H. F., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 62-64
Schistosoma haematobium-infected mice challenged with *S. mansoni*, study of granuloma development suggests presence of cross immunization

Immunity, Cross-reactions

- Minami, T., 1977, *Japan Agric. Research Quart.*, v. 11 (4), 234-238
 Japanese *Babesia* sp., cattle (exper.), capillary-tube agglutination test, discrimination from *B. bigemina* and *B. argentina* was almost possible, no cross reactions with other protozoa

Immunity, Cross-reactions

- Minami, T.; et al., 1979, *Vet. Parasitol.*, v. 5 (1), 29-38
Babesia bigemina and Japanese *Babesia* species can be serologically differentiated by the complement fixation and capillary-tube agglutination tests

Immunity, Cross-reactions

- Moqbel, R.; and Wakelin, D., 1979, *Exper. Parasitol.*, v. 47 (1), 65-72
Trichinella spiralis, *Strongyloides ratti*, immune interaction in adult rats, may involve interplay of cross-immunity and cross-suppression

Immunity, Cross reactions

- Mwaiko, G. L.; and Mkufya, A., 1977, *East African Med. J.*, v. 54 (12), 680-683
Onchocerca volvulus, humans, detection of antibodies using adult *O. gutturosa* antigen; comparison of indirect haemagglutination, agar gel diffusion, and countercurrent immunoelectrophoresis methods; cross reactions with sera of persons infected with *Wuchereria bancrofti*

Immunity, Cross-reactions

- O'Donnell, I. J.; and Mitchell, G. F., 1978, *Austral. J. Biol. Sc.*, v. 31 (5), 459-487
Ascaris lumbricoides (var. suum), humans, mice, allergens investigated using radio-allergosorbent test and passive cutaneous anaphylaxis test, cross-reactions with other helminths, some biochemical and immunobiological properties of allergens

Immunity, Cross-reactions

- Oelerich, S., 1977, *Tropenmed. u. Parasitol.*, v. 28 (4), 539-544
Paragonimus uterobilateralis, *P. africanus*, *Macaca mulatta* (exper.), serological changes (indirect hemagglutination, complement fixation, double gel diffusion), cross-reactions occurred but species could be differentiated by disc-electrophoresis; supplemented by parasitologic and radiologic observations of other authors

Immunity, Cross-reactions

- Ørnbjerg Christensen, N.; et al., 1978, *Exper. Parasitol.*, v. 46 (1), 113-120
Schistosoma mansoni, *Fasciola hepatica*, cross-resistance in mice

- Immunity, Cross-reactions**
de Oliveira, G. S. C.; Barbosa, W.; and da Silva, A. L., 1973, *Rev. Patol. Trop.*, v. 2 (4), 387-395
Isospora hominis, I. belli, humans, epidemiologic survey, clinical aspects, immunodiagnostic comparisons with Toxoplasma gondii (immunofluorescence, protein electrophoresis, Sabin-Feldman dye test) resulted in frequent cross-reactions: Goias, Brazil
- Immunity, Cross-reactions**
Ongom, V. L.; Ococi-Jungalo, A. H.; and Wamboka, J. W., 1977, *East African Med. J.*, v. 54 (12), 678-679
mixed Schistosoma mansoni and S. bovis infection in Sudanese immigrant (stool), case report, significance in relation to current concepts on heterologous immunity discussed, infection possibly acquired from drinking river water frequented by wild animals: Uganda
- Immunity, Cross-reactions**
Oteng, A. K., 1977, *Bull. Animal Health and Prod. Africa*, v. 25 (2), 126-131
Theileria parva, cross-immunity trials in recovered cattle indicate that Ugandan isolates differ immunologically from T. parva (Muguga) and among themselves and that several strains and/or species are responsible for field cases of East Coast fever: Uganda
- Immunity, Cross-reactions**
Pelley, R. P.; and Hillyer, G. V., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1192-1194
Schistosoma mansoni, Fasciola hepatica, demonstration of common antigen
- Immunity, Cross-reactions**
Perez, H.; Arredondo, B.; and Machado, R., 1979, *Exper. Parasitol.*, v. 48 (1), 9-14
Leishmania mexicana, L. tropica major, cross immunity in mice, evidence of shared antigenic determinants which are involved in cell-mediated immune responses
- Immunity, Cross-reactions**
Petavy, A. F.; et al., 1978, *Avian Path.*, v. 7 (4), 533-540
Syngamus trachea, antigenic structure studied by gel electrophoresis and by immunoelectrophoresis including staining for enzyme activity, cross-reactions with Trichinella spiralis and Ascaris lumbricoides
- Immunity, Cross-reactions**
Peters, W.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (1), 23-36
Plasmodium berghei 'NS lines' form distinct taxon within P. yoelii complex and should be referred to as P. yoelii subspecies on basis of isoenzyme, DNA, and cross-immunity relationships with other rodent Plasmodium spp.
- Immunity, Cross-reactions**
Powell, C. N., 1978, *Experientia*, v. 34 (11), 1450-1451
Trypanosoma rhodesiense, rats, inoculation with fraction 3, protection against challenge with T. brucei
- Immunity, Cross-reactions**
Rajasekariah, G. R.; et al., 1979, *Ztschr. Parasitenk.*, v. 58 (2), 175-180
Fasciola hepatica, unsuccessful attempts to immunise rats and mice by oral dosing with Taenia hydatigena eggs or by vaccination with various T. hydatigena antigen preparations, results suggest that mice and rats are inappropriate as models for investigating cross-immunity between these 2 species
- Immunity, Cross-reactions**
Razzakov, Sh. A., 1976, *Med. Parazitol. i Parazitar. Bolezni*, v. 45 (2), 148-152
echinococcal or alveococcal antigen-antibody complexes used to immunize rabbits, resulting sera with narrow specificity, useful for immunochemical analysis of echinococcal or alveococcal antigens
- Immunity, Cross-reactions**
Ryley, J. F.; and Hardman, L., 1978, *J. Parasitol.*, v. 64 (5), 878-881
Eimeria acervulina, E. mivati, speciation studies (cross-immunity and drug resistance studies), some immunological relationship was demonstrated but the failure of the 2 organisms to interbreed in the drug resistance studies lends support to status of E. mivati as distinct species
- Immunity, Cross-reactions**
Saathoff, M.; Kasper, M.; and Demmer, H., 1978, *Deutsche Med. Wchnschr.*, v. 103 (41), 1606-1608, 1609-1611
Trichinella spiralis, humans, animals, diagnosis, sensitivity and specificity of 4 different serological tests, serologic differentiation from some other helminth infections with which cross-reactions occur
- Immunity, Cross-reactions**
Sato, Y.; et al., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (4), 209-221
Angiostrongylus cantonensis, human, 7 suspected cases, immunodiagnosis (gel diffusion, immunoelectrophoresis, indirect hemagglutination, skin test), cross-reactions with other helminths observed: Okinawa
- Immunity, Cross-reactions**
Schantz, P. M., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (4), 179-194
Echinococcus granulosus-infected sheep, comparative evaluation of the intradermal, Bentonite flocculation, and indirect hemagglutination diagnostic tests, some cross reactions with Taenia hydatigena-infected sheep (nat. and exper.), histopathology of intradermal reactions
- Immunity, Cross-reactions**
Shirley, M. W., 1979, *Avian Path.*, v. 8 (4), 469-475
Eimeria mivati, chickens (exper.), 3 strains (2 chicken-maintained, 1 embryo-adapted), pathogenicity compared with E. acervulina, cross-protection between virulent and attenuated strains
- Immunity, Cross-reactions**
Singh, M.; et al., 1979, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 10 (4), 486-497
Brugia malayi, Wuchereria bancrofti, infected human sera, indirect immunofluorescence test using sonicated microfilariae of B. malayi as antigen, cross reaction studies with onchocerciasis sera

- Immunity, Cross-reactions**
de Souza, M. do C. M., 1974, *Rev. Patol. Trop.*, v. 3 (3), 291-332
Leptomonas pessoai, antigenic relationships with other trypanosomatids, cross-protection of mice against Trypanosoma cruzi
- Immunity, Cross-reactions**
de Souza, M. do C. M.; and Barbosa, W., 1972, *Rev. Patol. Trop.*, v. 1 (4), 415-419
antigens of Crithidia fasciculata, Trypanosoma cruzi and Leishmania brasiliensis showed cross-reacting precipitating bands with the antigen of Leptomonas pessoai as demonstrated by the agar gel diffusion technique
- Immunity, Cross-reactions**
Speiser, F.; and Weiss, N., 1979, *Experientia*, v. 35 (11), 1512-1514
112 sera from Europeans with parasitologically proven helminthiasis tested in enzyme-linked immunosorbent assay against 7 non-purified helminth antigens, extensive cross-reactions
- Immunity, Cross-reactions**
Sukhdeo, M. V. K.; and Meerovitch, E., 1979, *Internat. J. Parasitol.*, v. 9 (6), 571-576
Trichinella, 3 geographic isolates (Alaska, Canada, Kenya), comparison of antigenic characteristics, possible taxonomic implications
- Immunity, Cross-reactions**
Swietlikowski, M., 1975, *Acta Parasitol. Polon.*, v. 23 (1-11), 147-157
Dictyocaulus filaria did not develop to sexual maturity in calves but in some circumstances provided weak resistance to challenge with D. viviparus, 1000 larvae given to calves under 3 months of age provoked symptoms of clinical dictyocaulosis, serological findings indicate differences in antigen structure of the 2 species
- Immunity, Cross-reactions**
Takaoka, M.; and Tanaka, H., 1975, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 24 (5), 255-264
Litomosoides carinii, excretory/secretory and somatic antigens studied in double diffusion, immunoelectrophoresis, complement fixation, and indirect hemagglutination tests using serum from infected cotton rats and immunized rabbits, cross-reactions with serum from Dirofilaria immitis-infected dogs in double diffusion test
- Immunity, Cross-reactions**
Taylor, S. M.; and Kenny, J., 1978, *Vet. Parasitol.*, v. 4 (3), 257-264
infection of pigs with Oesophagostomum spp. does not affect specificity of ELISA (enzyme-linked immunosorbent assay) test for presence of antibody to Trichinella spiralis; cross-reactions between nematodes need not under most conditions be taken into account in interpretation of ELISA results
- Immunity, Cross-reactions**
Terziiski, A.; Baicheva, O.; and Dragneva, N., 1977, *Khel'mintologiya, Sofia*, v. 4, 68-72
Ascaris suum, no antigenic similarity with Ditylenchus dipsaci, negative cross-reactions, cross intracutaneous test
- Immunity, Cross-reactions**
Thomas, V.; Ogunba, E. O.; and Fabiyi, A., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (5), 451-456
Schistosoma mansoni, S. haematobium, humans, evaluation of seroimmunologic techniques (indirect fluorescent antibody, complement fixation and counter-current immunoelectrophoresis) for diagnosis; cross reactions were consistently present so that it was not possible to differentiate between the parasites: Nigeria
- Immunity, Cross-reactions**
Thompson, K. C.; Todorovic, R. A.; and Hidalgo, R. J., 1978, *Research Vet. Sc.*, v. 24 (2), 234-237
Babesia bigemina, immune response of calves to acute and chronic blood- and tick-borne infections with 4 stabilates, reduced immune response to homologous challenge but marked response to heterologous challenge indicated antigenic differences between isolates
- Immunity, Cross-reactions**
Torres, P.; and Barriga, O. O., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 441-451
Ascaris suum, A. lumbricoides, Toxocara mystax, A. galli, adult specimens, common and species-specific antigens, antigenic composition of different sexes within each species
- Immunity, Cross-reactions**
Tribouley-Duret, J.; et al., 1978, *Ann. Parasitol.*, v. 53 (6), 641-648
Strongyloides stercoralis, human, diagnosis, E.L.I.S.A. with S. ratti as antigen, some cross-reactions in patients with other nematode infections, should be used in conjunction with other diagnostic methods, useful for assessing effectiveness of treatment
- Immunity, Cross-reactions**
Uilenberg, G.; van Vorstenbosch, C. J. A. H. V.; and Perie, N. M., 1979, *Vet. Quart.*, v. 1 (1), 14-22
Anaplasma mesaeterum sp. n., sheep (nat. and exper.) and goats (exper.), pathogenicity, oxytetracycline treatment, cross-immunity tests with A. ovis: Ameland, the Netherlands
- Immunity, Cross-reactions**
Varela-Diaz, V. M.; Coltorti, E. A.; and D'Alessandro, A., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 554-557
sera from 2 patients (one with Echinococcus vogeli and one with cysticercosis associated with multiple myeloma) were positive to immunoelectrophoresis test for hydatidosis based on E. granulosus arc 5 positivity criterion
- Immunity, Cross-reactions**
Webbe, G.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (1), 42-54
Schistosoma haematobium-immunized Papio anubis, strong immunity to homologous challenge, marked degree of acquired immunity to S. mansoni challenge

Immunity, Cross-reactions

Weiland, G.; and zu Dohna, H. G., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (2), 33-35

Babesia spp., mice, dogs, rabbits, enzyme-linked immunosorbent assay suitable for detection of antibodies in field surveys, cross-reactions occurred although distinct titer differences could be observed

Immunity, Cross-reactions

Weiland, G.; Rommel, M.; and von Seyerl, F., 1979, Berl. u. Munchen. Tierarztl. Wchnschr., v. 92 (2), 30-32

Toxoplasma gondii, *Hammondia hammondi*, mice, serological cross-reactions

Immunity, Cross-reactions

Weiland, G.; and Schwarzhuber, A., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (11), 209-213

visceral larva migrans, mice, dogs, humans, enzyme-linked immunosorbent assay and indirect immunofluorescence using *Toxocara canis* and *Ascaris suum* as antigens proved to be unsuitable for diagnosis, cross-reactivity with other helminths

Immunity, Cross-reactions

Yong, W. K.; Heath, D. D.; and Parmeter, S. N., 1978, N. Zealand Vet. J., v. 26 (9), 231-234

Echinococcus granulosus, *Taenia hydatigena*, *T. ovis*, sheep (nat. and exper.), indirect haemagglutination test using cyst fluids as antigens, serological cross-reactions, test useful for non-specific detection of larval cestodes

Immunity, Cross-reactions

Yong, W. K.; Heath, D. D.; and Savage, T., 1979, Brit. Med. J. (6176), v. 1, 1463-1464

Echinococcus granulosus, man with positive immunoelectrophoresis test for hydatidosis, later diagnosed as pulmonary carcinoma, possible antigenic similarity: New Zealand

Immunity, Cross-reactions

Zyngier, F. R., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 427-432

Ascaris suum and *Toxocara canis*, rabbits and Rhesus monkeys, diagnosis using *T. canis* antigen for complement fixation, passive haemagglutination, and immunodiffusion tests, extensive cross-reactivity

Immunity, Cutaneous reactions. See Immunity, Skin tests.

Immunity, Diagnosis. [See also Immunity, Agglutination; Immunity, Complement; Immunity, Enzyme labelling; Immunity, Immobilization; Immunity, Lymphocyte transformation; Immunity, Macrophage migration test; Immunity, Precipitation; Immunity, Radioimmunoassay; Immunity, Skin tests; Immunity, Immunofluorescence]

Immunity, Diagnosis

Amato Neto, V.; et al., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (4), 264-272

Toxoplasma gondii, human lymphatic infections, immunofluorescence tests and Sabin-Feldman dye tests compared

Immunity, Diagnosis

Amato Neto, V.; Camargo, M. E.; and da Costa, A. C. T., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (3), 135-139

test for anti-*Toxoplasma gondii* antibodies in persons with various non-parasitic diseases, Sabin-Feldman dye test and immunofluorescence compared using serum vs. ascitic fluid samples

Immunity, Diagnosis

Amato Neto, V.; Serrano, C. da P.; and Spina-Franca, A., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (2), 89-92

Toxoplasma gondii, human acquired lymphatic infection, comparative study of serum and cerebro spinal fluid with Sabin-Feldman dye test, less antibodies in spinal fluid than serum, no evidence of nervous system involvement

Immunity, Diagnosis

Anderson, S. E.; and Remington, J. S., 1975, South. Med. J., v. 68 (11), 1433-1443

Toxoplasma gondii, humans, diagnosis, review

Immunity, Diagnosis

Andre, J.; and Filippi, R., 1978, Rev. Inst. Pasteur Lyon, v. 11 (1), 65-87

Toxoplasma gondii, antibody prevalence survey in pregnant women during diagnostic work-ups prior to delivery, immunofluorescence and Sabin-Feldman dye tests both of diagnostic value but direct agglutination test gave false positive reactions

Immunity, Diagnosis

de Araujo, F. G., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 105-111

Toxoplasma gondii, survey of serum samples from blood donors, Sabin-Feldman dye test and indirect immunofluorescence tests compared; *Sarcocystis* sp. in local animals may have some bearing on test results: Belo Horizonte, Brazil

Immunity, Diagnosis

Baruzzi, R. G., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 93-104

Toxoplasma gondii, epidemiologic survey of indians of the Upper Xingu River (indirect immunofluorescence), comparison with 2 other surveys made in different geographic areas and in populations of more advanced areas of civilization (Sabin-Feldman dye test), little significant differences: Brazil

Immunity, Diagnosis

Beach, P. G., 1979, J. Infect. Dis., v. 140 (5), 780-783

Toxoplasma gondii antibody prevalence in pregnant women, indirect haemagglutination test acceptable for mass screening, comparison with methylene blue dye test and indirect fluorescent antibody test: Oregon

Immunity, Diagnosis

Betz, A., 1977, Tech. Immunofluoresc. et React. Immuno-enzymat., 263-270

toxoplasmosis, human, serodiagnosis, review

Immunity, Diagnosis

Biagi, F.; and Gonzalez, C., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (6), 349-351

toxoplasmosis, humans, diagnosis comparing Sabin-Feldman dye test and latex flocculation; both tests gave similar results

Immunity, Diagnosis

Boron-Kaczmarek, A., 1979, Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe A, v. 244 (4), 552-557

Trichinella spiralis, rabbits (exper.), dynamics of immunocytadherence test, value in diagnostic and prognostic evaluation of trichinellosis

Immunity, Diagnosis

Bray, R. S., 1976, Immunol. Parasit. Infect., 65-76

leishmaniasis, immunodiagnosis, review

Immunity, Diagnosis

Buck, A. A.; Anderson, R. I.; and MacRae, A. A., 1978, Tropenmed. u. Parasitol., v. 29 (2), 145-155

poly-parasitism interferes with immunodiagnostic tests both directly and indirectly, examples and implications for epidemiological studies

Immunity, Diagnosis

Bywater, J. E. C.; and Kellett, B. S., 1978, Lab. Animal Sc., v. 28 (4), 402-404

Encephalitozoon cuniculi, specific pathogen-free rabbit colony, diagnosis by modified India-ink immunoreaction test, eradication by culling of seropositive animals

Immunity, Diagnosis

Cacciapuoti, B.; et al., 1979, Boll. Ist. Sieroterap. Milanese, v. 58 (2), 148-157

toxoplasmosis, human, diagnosis, complement fixation reaction, evaluation of different antigens and methods, comparison with dye test and indirect immunofluorescence

Immunity, Diagnosis

Camargo, M. E., 1975, AMB, Rev. Ass. Med. Brasil., v. 21 (11), 341-344

Toxoplasma gondii, pregnant women, serodiagnosis, review

Immunity, Diagnosis

Camargo, M. E.; and Leser, P. G., 1974, AMB, Rev. Ass. Med. Brasil., v. 20 (9), 335-336

Trypanosoma cruzi, laboratory diagnosis of unsuspected acute post-transfusion Chagas' disease, 2 case reports: Sao Paulo

Immunity, Diagnosis

Cambelova, J.; and Mikula, J., 1977, Ceskoslov. Epidemiol., Mikrobiol., Immunol., v. 26 (4), 240-244

Trichinella spiralis, serological diagnosis, quality of antigen prepared by 4 different methods compared

Immunity, Diagnosis

Cammarota, H. E.; Castro, C.; and Aon, J. J., 1972, Rev. Argent. Cardiol., v. 40 (1), 49-54

Toxoplasma gondii, evaluation as cause of human myocarditis, importance of differential diagnosis

Immunity, Diagnosis

Capron, A.; et al., 1974, Tijdschr. Gastroenterol., v. 17 (1), 17-23

hepato-biliary parasitic infections, humans, use of immunologic diagnostic techniques for post-therapeutic evaluations

Immunity, Diagnosis

Cross, J. H., 1973, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 72 (7), 407-412

parasitic diseases of human respiratory system, immunodiagnostic methods, review

Immunity, Diagnosis

Dumon, H.; Vervloet, D.; and Quilici, M., 1978, Rev. Prat., Paris, v. 28 (37), 2847-2852

human echinococcosis, review of currently used immunologic diagnostic techniques

Immunity, Diagnosis

Dutta, G. P.; and Sharma, P., 1979, J. Scient. and Indust. Research, India, v. 38 (4), 219-230

Entamoeba histolytica, human, immunodiagnosis, comparative evaluation of tests, review

Immunity, Diagnosis

Dymowska, Z., 1974, Przegl. Epidemiol., v. 28 (3), 375-380

human toxoplasmosis, evaluation of Sabin-Feldman dye test, immunofluorescence and other immunobiological tests used in diagnosis

Immunity, Diagnosis

Eckert, J.; and Wissler, K., 1978, Therap. Umschau, v. 35 (9), 766-776

echinococcosis, life cycle, current immunodiagnostic methods reviewed; exper. studies with vermox in rodents, compared with previous studies in man

Immunity, Diagnosis

Elsdon-Dew, R., 1976, Immunol. Parasit. Infect., 58-64

amoebiasis, serodiagnosis, review

Immunity, Diagnosis

Fesefeldt, C.; and Braveny, I., 1978, Immun. u. Infekt., v. 6 (4), 160-165

Toxoplasma, human, diagnosis, micromethod with stable reagents for indirect hemagglutination test (IHAT), comparison with Sabin-Feldman dye test, complement fixation test, and 2 commercial IHAT kits

Immunity, Diagnosis

Fife, E. H., jr., 1976, Immunol. Parasit. Infect., 77-93

African and American trypanosomiasis, serodiagnosis, review

Immunity, Diagnosis

Fraga Ortega, S., 1973, Rev. Cir. Hosp. Juarez, Mexico (187-188), v. 44, 1972-1973, 48-53

E[ntamoeba] histolytica, humans, review of currently available diagnostic methods (fecal examination, search for trophozoites in body exudates and fluids, seroimmunologic methods)

Immunity, Diagnosis

Giordano, C.; et al., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 213-225

African trypanosomiasis, humans, diagnosis (radiology, electroencephalography, immunofluorescence, immunoelectrophoresis, electrophoresis)

Immunity, Diagnosis

Guimaraes, M. C. S.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 350-353

comparison of IgG and IgM contents in serum vs. filter paper blood eluates

Immunity, Diagnosis

Ishizuka, M. M.; et al., 1975, Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo, v. 12, 283-287

Toxoplasma gondii, horses, detection of antibodies by Sabin-Feldman test and indirect fluorescent antibody technique compared

- Immunity, Diagnosis
Ismail, M.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 251-258
schistosomiasis in humans and in *Papio anubis*, detection and quantification of antibodies, comparison of thin layer immunoassay vs. enzyme-linked immunosorbent assay
- Immunity, Diagnosis
Jacobs, L., 1976, *Immunol. Parasit. Infect.*, 94-106
toxoplasmosis, serodiagnosis, review
- Immunity, Diagnosis
Jamra, L. M. F.; and Guimaraes, E. C., 1976, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 9 (1), 67-70
Toxoplasma gondii, suggestions for improving immunodiagnostic tests, culture procedures and storage methods for laboratory studies
- Immunity, Diagnosis
Kagan, I. G., 1976, *Immunol. Parasit. Infect.*, 130-142
hydatid disease, serodiagnosis, review
- Immunity, Diagnosis
Kagan, I. G., 1976, *Immunol. Parasit. Infect.*, 143-151
trichinosis, serodiagnosis, review
- Immunity, Diagnosis
Kagan, I. G., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (3), 429-439
immunological aspects of diagnosis, epidemiology and experimental parasitology, presidential address before 27. Ann. Meet. Am. Soc. Trop. Med. and Hyg.
- Immunity, Diagnosis
Kaliraj, P.; et al., 1978, *Indian J. Exper. Biol.*, v. 16 (9), 994-995
Wuchereria bancrofti, rabbits, immunization with whole and soluble microfilarial (mf) antigens, analysis of rabbit anti-mf sera by agar gel diffusion, possible use of rabbit anti-mf sera in detection of circulating filarial antigen in human filarial cases
- Immunity, Diagnosis
Kaufer, F., 1977, *Acta Biochim. Clin. Latinoam.*, v. 11 (4), 283-289
toxoplasmosis, immunodiagnosis, symposium presentation
- Immunity, Diagnosis
Kellett, B. S.; and Bywater, J. E. C., 1978, *Lab. Animals*, v. 12 (2), 59-60
Encephalitozoon cuniculi, detection of antibodies in rabbit sera, modified india-ink immuno-technique
- Immunity, Diagnosis
Kellett, B. S.; and Bywater, J. E. C., 1979, *Lab. Animals*, v. 13 (3), 197-198
Encephalitozoon cuniculi, technique for photographing india-ink immunoreaction
- Immunity, Diagnosis
Kirchner, F.; and Cotrim, J. X., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (1), 33-50
Toxoplasma gondii, prevalence survey, Sabin-Feldman dye test, population of 3 areas: State of Sao Paulo, Brazil
- Immunity, Diagnosis
Kobayashi, A.; et al., 1976, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 25 (6), 427-433
Toxoplasma dye test, human and horse sera as sources of accessory factor, serum from cows, pigs, and sheep could not be used as source of accessory factor
- Immunity, Diagnosis
Kobayashi, A.; et al., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (3), 175-180
Toxoplasma, diagnosis, commercial latex agglutination test, comparison with dye and indirect hemagglutination tests
- Immunity, Diagnosis
Lafaye, A.; and Saliou, P., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (4-5), 335-347
trypanosomiasis, humans, statistical evaluation of immunological diagnostic findings
- Immunity, Diagnosis
Lauriola, L.; et al., 1978, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 240 (2), 251-257
Echinococcus granulosus, preparation of monospecific antisera against antigens in sheep hydatid fluid, useful as reagents in serodiagnostic tests
- Immunity, Diagnosis
Le Lorier, B.; et al., 1978, *Rev. de Med. Limoges*, v. 9 (3), 143-148
human toxoplasmosis, comparative discussion on value of Sabin-Feldman dye test, immunofluorescence and agglutination for diagnosis
- Immunity, Diagnosis
Li, Y. H.; et al., 1974, *Tung Wu Hsueh Pao (Acta Zool. Sinica)*, v. 20 (3), 273-280
schistosomiasis, recent advances in fecal examination technique, rectal biopsy, intradermal test, and serological reactions, review
- Immunity, Diagnosis
Loehr, H.; and Wolf, H., 1978, *Deutsche Med. Wchnschr.*, v. 103 (10), 424-427
visceral leishmaniasis in child apparently acquired while traveling in Yugoslavia, manifestations of severe septic temperature elevations, diagnostic difficulties with diagnosis finally by immunoserologic means, improvement in condition after fuadin therapy: Germany
- Immunity, Diagnosis
Luckins, A. G.; et al., 1979, *Trop. Animal Health and Prod.*, v. 11 (1), 1-12
Trypanosoma evansi, camels (nat. and exper.), indirect fluorescent antibody test and micro-scale enzyme linked immunosorbent assay compared with tests for detection of raised euglobulin levels: Sudan
- Immunity, Diagnosis
Lumsden, W. H. R., 1978, *Handb. Exper. Immunol. (Weir)*, 3. ed., 42.1-42.47
demonstration of antibodies to Protozoa, extensive review

- Immunity, Diagnosis
Macruz, R.; et al., 1975, Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo, v. 12, 277-281
Toxoplasma gondii, thoroughbred horses grouped by clinical symptoms, serological evaluation by Sabin-Feldman test: Sao Paulo state
- Immunity, Diagnosis
Marcipar, A.; et al., 1979, IRCS J. Med. Sc., v. 7 (4), 178
Trypanosoma cruzi, immobilized antigens (using polyamide as immunoabsorbent matrix) in indirect enzyme antibody linked method, possible application in diagnosis and antibody isolation
- Immunity, Diagnosis
Markus, M. B., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 346-347 [Letter]
Sarcocystis, "serological tests for human sarcocystis have little or no diagnostic value"
- Immunity, Diagnosis
Meuwissen, J. H. E. T., 1978, Israel J. Med. Sc., v. 14 (6), 687-689
malaria, introductory remarks on seroepidemiology and immunodiagnosis, symposium presentation
- Immunity, Diagnosis
Meuwissen, J. H. E. T., 1978, Israel J. Med. Sc., v. 14 (6), 692-696
malaria, 4 yearly surveys in Surinam with indirect hemagglutination test, general comments on seroepidemiologic surveys and mathematical models for assessment of malaria transmission rates, symposium presentation
- Immunity, Diagnosis
Mitchell, G. F.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (3), 287-302
Mesocercariae corti, mice, development of sensitive and specific prototype immunodiagnostic reagent based on use of an anti-parasite hybridoma antibody
- Immunity, Diagnosis
Munday, B. L., 1978, Internat. J. Parasitol., v. 8 (4), 285-288
Toxoplasma gondii, calves (exper.), pregnant cows (exper.), antibody titres measured by indirect fluorescent antibody test and dye test, Toxoplasma reisolated from 3 of the 5 calves, no abortions in pregnant cows and no evidence of infection in their calves, concluded that cattle do not readily acquire persistent T. gondii infections
- Immunity, Diagnosis
Musiani, P.; et al., 1978, J. Clin. Path., v. 31 (5), 475-478
Echinococcus granulosus, concentration of antigens 4 and 5 in hydatid cyst fluids from various organs and various animal species, standardization of antigenic material for immunodiagnosis of hydatid disease
- Immunity, Diagnosis
Occhipinti, S.; and Satta, U., 1974, Recent Prog. Med., v. 56 (3), 275-306
echinococcosis, human hepatic, extensive review of past and present diagnostic methods: Italy
- Immunity, Diagnosis
Pery, P.; and Luffau, G., 1979, Antigens (Sela), v. 5, 83-172
antigens of helminths, extensive review: immunity to helminths; pathophysiology of antigens; immunodiagnosis and immunoprevention
- Immunity, Diagnosis
Plonka, W. S., 1975, Przegl. Epidemiol., v. 29 (3), 309-319
human trichinosis, review and evaluation of immunodiagnostic methods
- Immunity, Diagnosis
Polderman, A. M.; and Deelder, A. M., 1977, Acta Leidensia, v. 45, 21-29
Schistosoma mansoni, humans, fecal examination compared with serological techniques (ELISA, defined antigen substrate spheres, indirect fluorescent antibody, indirect haemagglutination), results show that serological tests lack in specificity and sensitivity: Ethiopia
- Immunity, Diagnosis
Ponirovskii, E. N., 1975, Parazitologiya, Leningrad, v. 9 (2), 139-141
Leishmania, comparison of 3 methods of identification of strains
- Immunity, Diagnosis
Prasad, B. N.; and Jorgensen, R. J., 1978, v. 17 (1-2), 197-202
Sarcocystis, cattle, isolation and identification using various diagnostic methods, differentiation from Toxoplasma with dye-test: Denmark
- Immunity, Diagnosis
Ratliff, C. R., 1979, South. Med. J., v. 72 (9), 1181-1188
parasitic diseases, human, current status, diagnostic methods, review: United States
- Immunity, Diagnosis
Rickard, M. D., 1979, Austral. Vet. J., v. 5 (3), 99-104
Echinococcus granulosus, human, immunological diagnosis, review
- Immunity, Diagnosis
Rocha, H., 1977, Rev. Brasil. Oftal., v. 36 (2), 285-297
human ocular toxoplasmosis, clinical, diagnostic and therapeutic review
- Immunity, Diagnosis
Rossi, M., 1978, Riv. Ospedali, Roma, v. 10 (6), 420-423
Echinococcus granulosus, human, review of sero-immunologic diagnostic methods
- Immunity, Diagnosis
Rotmans, J. P., 1978, Exper. Parasitol., v. 46 (1), 49-58
Schistosoma mansoni, antigenic characterization of malate dehydrogenase isoenzymes by immunoelectrophoresis, malate dehydrogenase antigens in S. mansoni, S. haematobium, and S. bovis are immunologically indistinguishable, attempted use of these antigens in defined antigen substrate spheres system, not sensitive enough for immunodiagnosis

- Immunity, Diagnosis**
Ruiz-Tiben, E.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 230-236
Schistosoma mansoni, human, 6 serologic tests evaluated by comparing their results with those of sensitive stool examination method, relationship between intensity of infection and sensitivity and specificity of serologic tests: Parcelas de Boqueron, Puerto Rico
- Immunity, Diagnosis**
Sadun, E. H., 1976, *Immunol. Parasit. Infect.*, 47-57
parasitic infections, application of immuno-diagnostic tests, review
- Immunity, Diagnosis**
Sadun, E. H., 1976, *Immunol. Parasit. Infect.*, 120-129, pls. following p. 132
schistosomiasis, serodiagnosis, review
- Immunity, Diagnosis**
Saiz Moreno, L., 1974, *Rev. San. e Hig. Pub.*, v. 48 (12), 1075-1112
human echinococcosis, review of diagnostic methods in current use, recommendations for techniques useful in epidemiologic surveys
- Immunity, Diagnosis**
Soulsby, E. J. L., 1976, *Immunol. Parasit. Infect.*, 152-161
helminth infections, serodiagnosis, review
- Immunity, Diagnosis**
Soulsby, E. J. L., 1978, *Handb. Exper. Immunol. (Weir)*, 3. ed., 43.1-43.22
immunological methods in helminthology, review
- Immunity, Diagnosis**
Spira, D. T., 1978, *Israel J. Med. Sc.*, v. 14 (6), 707-711
immunodiagnosis of malaria, prospects for the future, symposium presentation
- Immunity, Diagnosis**
Staak, C., 1977, 3. Externe Veterinartagung, Ber. u. Arbeitsergebn. (40), 193-207
trypanosomiasis, several diagnostic methods evaluated under laboratory and field conditions
- Immunity, Diagnosis**
Szafranek, J.; et al., 1973, *Psychiat. Polska*, v. 7 (5), 531-534
Toxoplasma gondii, humans with mental illnesses, high proportion of positive reactions to Sabin-Feldman dye test in 72 tested patients, need for diagnostic awareness
- Immunity, Diagnosis**
Tönder, O.; Closs, O.; and Digranes, A., 1974, *Scand. J. Infect. Dis.*, v. 6 (1), 63-68
Toxoplasma gondii, human, comparison of the indirect haemagglutination and dye test for detection of antibodies
- Immunity, Diagnosis**
Vaage, L.; and Midtvedt, T., 1970, *Scand. J. Infect. Dis.*, v. 2 (1), 65-69
Toxoplasma gondii, naval recruits, comparative evaluation of the Sabin-Feldman dye test and the toxoplasmin cutaneous test (TCT) to evaluate usefulness of the TCT for epidemiologic research: Norway
- Immunity, Diagnosis**
Voller, A., 1976, *Immunol. Parasit. Infect.*, 107-119
malaria, serodiagnosis, review
- Immunity, Diagnosis**
Voller, A., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (4-5), 273-280
African trypanosomiasis, humans, various immunoserologic diagnostic tests, review
- Immunity, Diagnosis**
Waller, T.; Lyngset, A.; and Morein, B., 1979, *Lab. Animals*, v. 13 (3), 207-208
Encephalitozoon cuniculi, rabbits, diagnosis, simple method for collection of blood on filter paper for india-ink immunoreaction
- Immunity, Diagnosis**
Waller, T.; Morein, B.; and Fabiansson, E., 1978, *Lab. Animals*, v. 12 (3), 145-148
Encephalitozoon cuniculi, rabbits, humoral immune response following different routes of infection, india-ink immunoreaction test, indirect immunofluorescent antibody test, and immunodiffusion test, immunoglobulin classes involved, possible use of results in eradication program
- Immunity, Electrophoresis.** See **Immunity, Precipitation.**
- Immunity, Enzyme labelling**
Albert, H.; and Hoerchner, F., 1979, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 92 (10), 189-193
Taenia saginata, calves (exper.), serum antibodies, enzyme-linked immunosorbent assay, titres following reinfection and drug therapy
- Immunity, Enzyme labelling**
Ambroise-Thomas, P., 1978, *Israel J. Med. Sc.*, v. 14 (6), 690-691
malaria, diagnosis and seroepidemiologic study by immunofluorescence, indirect hemagglutination, and immunoenzymology, brief symposium presentation
- Immunity, Enzyme labelling**
Ambroise-Thomas, P.; and Desgeorges, P. T., 1978, *Bull. World Health Organ.*, v. 56 (4), 609-613
parasitic diseases, diagnosis, enzyme-linked immunosorbent assay, modified micromethod
- Immunity, Enzyme labelling**
Ambroise-Thomas, P.; Desgeorges, P. T.; and Monget, D., 1978, *Bull. World Health Organ.*, v. 56 (5), 797-804
Toxoplasma gondii, *Entamoeba histolytica*, *Trichinella spiralis*, *Echinococcus granulosus*, human, diagnosis by enzyme-linked immunosorbent assay with a modified micromethod, parallel study by comparative serological tests
- Immunity, Enzyme labelling**
Anthony, R. L.; Johnson, C. M.; and Sousa, O. E., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 969-973
Trypanosoma cruzi, *T. rangeli*, Panamanian villagers, diagnosis, micro-enzyme-linked immunosorbent assay, some serologic cross-reactivity between 2 species; comparison with complement fixation, direct agglutination, and clinical diagnosis

Immunity, Enzyme labelling

- Arambulo, P. V. III; et al., 1978, *Acta Trop.*, v. 35 (1), 63-67
 cysticercosis, human, serodiagnosis by microplate enzyme-linked immunospecific assay

Immunity, Enzyme labelling

- Bidwell, D. E.; et al., 1978, *Vet. Rec.*, v. 103 (20), 446-449
Babesia divergens, B. major, cattle (exper.), serological diagnosis, comparison between microplate enzyme linked immunosorbent assay, indirect fluorescent antibody, and complement fixation tests, ELISA may be preferable

Immunity, Enzyme labelling

- Biglan, A. W.; Glickman, L. T.; and Lobes, L. A., jr., 1979, *Am. J. Ophth.*, Chicago, s. 3, v. 88 (5), 898-901
Toxocara canis, humans, endophthalmitis, enzyme-linked immunosorbent assay revealed *Toxocara*-specific antibody in serum and vitreous humor

Immunity, Enzyme labelling

- Burden, D. J.; and Hammet, N. C., 1978, *Vet. Rec.*, v. 103 (8), 158
Fasciola hepatica, calves (exper.), detection of prepatent infections with micro-enzyme-linked immunosorbent assay (micro-ELISA) test, promising results, no cross reaction with *Ostertagia ostertagi*

Immunity, Enzyme labelling

- Camargo, M. E.; et al., 1978, *Infect. and Immun.*, v. 21 (1), 55-58
 toxoplasmosis, diagnostic possibilities of IgG and IgM micro-enzyme-linked immunosorbent assays, results compared to those of hemagglutination, complement fixation, and immunofluorescence tests in serum samples presenting serological characteristics of recent or acute infection, of transitional period following acute infection, and of ancient infection

Immunity, Enzyme labelling

- Capron, A.; Bout, D.; and Dugimont, J. C., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 443-454
 hydatidosis, bilharziasis, toxoplasmosis, humans, diagnosis, enzyme linked immunoadsorbent assay

Immunity, Enzyme labelling

- Clinard, E. H., 1979, *Am. J. Vet. Research*, v. 40 (11), 1558-1563
Trichinella spiralis digestion-negative swine, identification and distribution of swine serum immunoglobulins that react with *T. spiralis* antigens and may interfere with enzyme-labeled antibody test

Immunity, Enzyme labelling

- Cross, J. H., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (2), 161-170
Angiostrongylus cantonensis, human, eosinophilic meningitis, review together with some new findings, clinical manifestations, diagnosis (including encouraging results with enzyme linked immunosorbent assay): Taiwan; Okinawa

Immunity, Enzyme labelling

- Denmark, J. R.; and Chessum, B. S., 1978, *Med. Lab. Sc.*, v. 35 (3), 227-232
Toxoplasma gondii, diagnosis, standardization of the enzyme-linked immunosorbent assay, discussion of apparatus available for mechanization of this process, importance of suitable carrier for the antigen

Immunity, Enzyme labelling

- Edrissian, G. H.; and Darabian, P., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 289-292
 leishmaniasis, human cutaneous and visceral infections, comparison of enzyme-linked immunosorbent assay and indirect fluorescent antibody test using *Leishmania donovani* antigens in diagnosis

Immunity, Enzyme labelling

- Elwing, H.; and Nygren, H., 1979, *J. Immunol. Methods*, v. 31 (1-2), 101-107
 diffusion-in-gel-enzyme-linked-immunosorbent assay as simple method for quantitation of class-specific antibodies, applicability to several serological systems of diagnostic relevance including patients with schistosomiasis and amoebiasis

Immunity, Enzyme labelling

- Farag, H. F.; et al., 1978, *Tropenmed. u. Parasitol.*, v. 29 (4), 413-416
 bilharziasis, human, diagnosis using enzyme-linked immunosorbent assay and homologous antigen, *S[chistosoma] haematobium* cases generally were less reactive than *S. mansoni* or mixed infections

Immunity, Enzyme labelling

- Farag, H. F.; and Barakat, R. M. R., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 12-14
S[chistosoma] mansoni, *S[chistosoma] haematobium*, human, enzyme linked immunosorbent assay, evaluation of use in diagnosis

Immunity, Enzyme labelling

- Felgner, P., 1977, *Tropenmed. u. Parasitol.*, v. 28 (4), 491-493
 amebic abscess, human, serodiagnosis, comparison of results using Stick-ELISA (enzyme-linked immunosorbent assay) and those obtained by complement fixation, indirect hemagglutination, counterelectrophoresis, and latex agglutination

Immunity, Enzyme labelling

- Felgner, P., 1978, *Tropenmed. u. Parasitol.*, v. 29 (4), 417-422
 alveolar and cystic echinococcosis, human, antibody activity in stick-ELISA compared to activity of complement fixation and indirect hemagglutination, no test allowed species specific diagnosis of cystic disease but most alveolar infections could be recognized using homologous antibody and ELISA or complement fixation

Immunity, Enzyme labelling

- Felgner, P., 1978, *Zentralbl. Bakteriол.*, 1. Abt. Orig., Reihe A, v. 240 (1), 112-117
 new technique of heterogenous enzyme-linked immunosorbent assay, stick-ELISA

- Immunity, Enzyme labelling
Felgner, P.; 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (1), 118-122
new technique of heterogenous enzyme-linked immunosorbent assay (stick-ELISA), application to antigens of various infective agents (including *Entameba histolytica*, *Toxoplasma gondii*, *Echinococcus* spp., *Schistosoma mansoni*)
- Immunity, Enzyme labelling
Ferreira, A. W.; et al., 1979, J. Helminth., v. 53 (3), 189-194
Schistosoma mansoni, immuno-enzymatic assay for detection of antigens in serum of mice harboring bisexual or unisexual light worm infections
- Immunity, Enzyme labelling
Ferreira, A. W.; Camargo, M. E.; and Nakahara, O. S., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (6), 341-345
Schistosoma mansoni, immuno-peroxidase-antiglobulin diagnostic test compared with standard immunofluorescence and hemagglutination tests
- Immunity, Enzyme labelling
Gannon, J., 1978, Lab. Animals, v. 12 (3), 125-127
Encephalitozoon cuniculi, rabbits (nat. and exper.), diagnosis, immunoperoxidase test, comparison with immunofluorescence test
- Immunity, Enzyme labelling
Glickman, L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 492-498
Toxocara canis, human visceral larva migrans, serodiagnosis, enzyme-linked immunosorbent assay appears to be method of choice as compared to indirect hemagglutination, bentonite flocculation, and double diffusion in agar
- Immunity, Enzyme labelling
Glickman, L. T.; Schantz, P. M.; and Cypess, R. H., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 254-258
Toxocara canis, patients with diagnostic ELISA titres vs. patients with presumed visceral larva migrans but less or no detectable antibody, clinical findings (including leucocytosis, eosinophilia, increased anti-A or anti-B isohaemagglutinin titre, elevated serum IgG level), epidemiological characteristics (age, sex, northern vs. southern residence, history of pica)
- Immunity, Enzyme labelling
Hassan, F.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (1), 3-7
schistosomiasis, humans, enzyme linked immunosorbent assay (ELISA), immunodiagnosis, compared with indirect fluorescent antibody and indirect hemagglutination tests
- Immunity, Enzyme labelling
Hillyer, G. V.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 661-669
Schistosoma mansoni, sera from infected persons, immunodiagnosis, comparison of enzyme-linked immunosorbent assay, radioimmunoassay and precipitation tests performed with antigens from eggs
- Immunity, Enzyme labelling
Hillyer, G. V.; and Gomez de Rios, I., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 237-241
Schistosoma mansoni, humans, mice, immunodiagnosis, enzyme-linked immunosorbent assay using soluble egg antigens, extensive cross-reactivity when using sera from subjects with other helminthiasis
- Immunity, Enzyme labelling
Hillyer, G. V.; and Santiago de Weil, N., 1979, J. Parasitol., v. 65 (5), 680-684
Fasciola hepatica, rats, rabbits, enzyme linked immunosorbent assay can be used for serodiagnosis and for prediction of chemotherapeutic success
- Immunity, Enzyme labelling
Hommel, M.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (3), 213-218
human and canine visceral leishmaniasis, micro-scale enzyme-linked immunosorbent assay (micro-ELISA) technique for serodiagnosis using *Leishmania infantum* as soluble antigen
- Immunity, Enzyme labelling
Ismail, M.; et al., 1979, Parasite Immunol., v. 1 (3), 251-258
schistosomiasis in humans and in *Papio anubis*, detection and quantification of antibodies, comparison of thin layer immunoassay vs. enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
Jacobson, R. H.; Grieve, R. B.; and Cypess, R. H., 1978, Proc. 21. Ann. Meet., Am. Ass. Vet. Lab. Diagn., 367-375
Dirofilaria immitis, dogs (exper.), diagnosis, enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
Kaggwa, F.; Weiland, G.; and Rommel, M., 1979, Bull. Animal Health and Prod. Africa, v. 27 (2), 127-137
Besnoitia besnoiti, *B. jellisoni*, rabbits, mice, diagnosis, indirect immunofluorescent antibody technique and enzyme-linked immunosorbent assay compared
- Immunity, Enzyme labelling
Kelsoe, G. H.; and Weller, T. H., 1978, Proc. National Acad. Sc., v. 75 (11), 5715-5717
Schistosoma mansoni, human, immunodiagnosis, enzyme-linked immunosorbent assay for detection and quantification of antibody to circulating antigen, findings correlated with results of fecal egg counts (relationship demonstrable within certain limits of host age and worm burden)
- Immunity, Enzyme labelling
van Knapen, F.; Buys, J.; and Ruitenberg, E. J., 1977, Ann. Soc. Belg. Med. Trop., v. 57 (4-5), 281-292
African trypanosomiasis, humans, diagnosis, evaluation of enzyme linked immunosorbent assay, comparison with other seroimmunologic tests
- Immunity, Enzyme labelling
Luckins, A. G., 1977, Trop. Animal Health and Prod., v. 9 (1), 53-62
Trypanosoma spp., cattle, immunodiagnosis, micromodification of enzyme-linked immunosorbent assay, test did not distinguish between different trypanosome species but there were no cross-reactions with other protozoal antigens

- Immunity, Enzyme labelling
 Luckins, A. G.; et al., 1979, *Trop. Animal Health and Prod.*, v. 11 (1), 1-12
Trypanosoma evansi, camels (nat. and exper.), indirect fluorescent antibody test and micro-scale enzyme linked immunosorbent assay compared with tests for detection of raised euglobulin levels: Sudan
- Immunity, Enzyme labelling
 Luckins, A. G.; Gray, A. R.; and Rae, P., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (5), 429-441
Trypanosoma evansi, rabbits, serodiagnosis, comparison of serum immunoglobulin levels, enzyme-linked immunosorbent assay, and fluorescent antibody test
- Immunity, Enzyme labelling
 Luckins, A. G.; and Mehlitz, D., 1978, *Trop. Animal Health and Prod.*, v. 10 (3), 149-159
 trypanosomiasis, cattle, diagnosis, indirect fluorescent antibody test, enzyme-linked immunosorbent assay, and serum IgM levels compared: Liberia
- Immunity, Enzyme labelling
 Lunde, M. N.; Ottesen, E. A.; and Cheever, A. W., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 87-91
Schistosoma mansoni, humans, monkeys, enzyme-linked immunosorbent assay technique using antigens prepared from eggs, cercariae, and adult worms, differential responses to antigen serologically differentiated between chronic and acute infections
- Immunity, Enzyme labelling
 Luzzio, A. J.; McRoberts, M. J.; and Euliss, N. H., 1979, *J. Infect. Dis.*, v. 140 (3), 370-377
Leishmania spp., immunized rabbits, infected hamsters (exper.), and humans, quantitative estimation of antibody titers by enzyme-linked immunosorbent assay, some comparisons with passive hemagglutination, complement fixation, and countercurrent immunoelectrophoresis
- Immunity, Enzyme labelling
 McLaren, M.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (3), 243-253
Schistosoma mansoni, enzyme linked immunosorbent assay (ELISA) test evaluated for diagnosis using a wide range of subjects representative of various field situations
- Immunity, Enzyme labelling
 Mangenot, M.; et al., 1979, *Med. Trop.*, v. 39 (5), 527-530
 African trypanosomiasis, humans, detection of foci, ELISA vs. immunofluorescence
- Immunity, Enzyme labelling
 Mannweiler, E.; et al., 1978, *Deutsche Med. Wchnschr.*, v. 103 (40), 1562-1565
Trichinella spiralis, serum antibody findings in humans who had eaten wild boar meat, complement fixation, indirect haemagglutination, and ELISA tests
- Immunity, Enzyme labelling
 Mannweiler, E.; Felgner, P.; and Lederer, I., 1979, *Deutsche Med. Wchnschr.*, v. 104 (32), 1139-1142
E[chinococcus] cysticus, *E[chinococcus] alveolaris*, humans, serum antibodies, complement fixation, indirect haemagglutination, and indirect enzyme immune (ELISA) techniques
- Immunity, Enzyme labelling
 Marcipar, A.; et al., 1979, *IRCS J. Med. Sc.*, v. 7 (4), 178
Trypanosoma cruzi, immobilized antigens (using polyamide as immunoadsorbent matrix) in indirect enzyme antibody linked method, possible application in diagnosis and antibody isolation
- Immunity, Enzyme labelling
 Marcoullis, G.; Salonen, E. M.; and Graesbeck, R., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 39-48
Onchocerca volvulus, antigens extracted from adult worms, purification and partial characterization, successful use in enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
 Marius, V.; et al., 1979, *Ann. Recherches Vet.*, v. 10 (1), 55-63
 calves (exper.) infected with *Dictyocaulus viviparus* and several intestinal nematodes, antibodies against *D. viviparus* antigen in sera and respiratory secretions, enzyme-linked immunosorbent assay
- Immunity, Enzyme labelling
 Matossian, R. M.; et al., 1979, *J. Helminth.*, v. 53 (4), 287-291
 human hydatid disease, serodiagnosis, indirect haemagglutination, enzyme-linked immunosorbent assay, fluorescence using defined antigen substrate spheres
- Immunity, Enzyme labelling
 Miller, R. E.; and Kemp, W. M., 1979, *J. Parasitol.*, v. 65 (2), 318-320
Schistosoma mansoni, modification of new technique for immunohistochemical localization of cell surface components
- Immunity, Enzyme labelling
 Norman, L.; Gold, D.; and Kagan, I. G., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 198-205
Entamoeba histolytica, exper. infected *Mesocricetus auratus*, measurement of serologic responses using indirect hemagglutination and enzyme linked immunosorbent assay tests
- Immunity, Enzyme labelling
 Ogilvie, B. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (1), 66-71
Necator americanus, man (exper.), evaluation of antibody responses by enzyme-linked immunosorbent assay and by radio-allergo-sorbent technique
- Immunity, Enzyme labelling
 Petrovic, M.; and Deedler, A. M., 1979, *Period. Biol.*, v. 81 (2), 513-515
Fasciola hepatica, immunodiagnosis, application of Defined Antigen Substrate Spheres system to immunofluorescence and immunohistoperoxidase reactions, cross-reactivity with *Schistosoma mansoni*
- Immunity, Enzyme labelling
 Pinon, J. M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 318-324
 hydatidosis, human, evaluation of immunoelectrodiffusion test (IED) vs. immunoelectrophoresis and indirect hemagglutination, sensitivity of IED increased and classes of immunoglobulins defined by combining enzymatic labelling with IED resulting in ELIEDA (enzyme-linked immunoelectrodiffusion assay)

Immunity, Enzyme labelling

Pinon, J. M.; Sulahian, A.; and Dropsy, G., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 492-495

Schistosoma mansoni, human, use of enzyme-linked-immuno-electro-diffusion-assay (ELIEDA) to study humoral antibodies

Immunity, Enzyme labelling

Pollard, Z. F., 1979, Arch. Ophth., Chicago, v. 97 (12), 2319-2320

Toxocara canis in 2 siblings of 2 separate families, decreased vision, diagnosis, enzyme-linked immunosorbent assay

Immunity, Enzyme labelling

Roffi, C.; et al., 1979, Med. Trop., v. 39 (6), 637-641

African trypanosomiasis, immunoenzymatic diagnosis comparing purified exoantigen and 5 crude extracts from strains of *Trypanosoma b. brucei* and *T. b. gambiense*; best sensitivity obtained with virulent strains of human origin

Immunity, Enzyme labelling

Ruitenbergh, E. J., 1977, Tech. Immunofluoresc. et React. Immuno-enzymat., 185-190

Trichinella spiralis, man and animals, diagnosis, enzyme-linked immunosorbent assay, indirect immunofluorescence, review

Immunity, Enzyme labelling

Ruitenbergh, E. J.; et al., 1977, Biomedicine, v. 26 (5), 311-314

human parasitic infections, enzyme-linked immunosorbent assay in diagnosis, brief review

Immunity, Enzyme labelling

Ruitenbergh, E. J.; et al., 1977, Tijdschr. Diergeneesk., v. 102 (17), 1021-1023

Trichinella spiralis, mechanized macro-enzyme-linked immunosorbent assay (ELISA) system for serodiagnosis of fattening pigs, 4,000 sera tested daily

Immunity, Enzyme labelling

Ruitenbergh, E. J.; and Buys, J., 1979, Vet. Parasitol., v. 5 (1), 73-78

Trichinella spiralis, pigs, analyses for IgE performed by homologous passive cutaneous anaphylactic reactions and for IgG by enzyme linked immunosorbent assay, possible significance of findings for early diagnosis of infections

Immunity, Enzyme labelling

Ruitenbergh, E. J.; van Knapen, F.; and Weiss, J. W., 1979, Vet. Quart., v. 1 (1), 5-13

food-borne parasitic infections, detection with enzyme-linked immunosorbent assay, control, review

Immunity, Enzyme labelling

Salih, S. Y.; Bartlett, A.; and Voller, A., 1978, Tropenmed. u. Parasitol., v. 29 (4), 409-412

Schistosoma mansoni, humans, enzyme-linked immunosorbent assay confirmed as highly sensitive test in detecting antibodies against adult worms (*S. haematobium*-infected serum cross-reacted but with significantly lower values); useful for field studies and evaluation of treatment efficacy

Immunity, Enzyme labelling

de Savigny, D. H.; Voller, A.; and Woodruff, A. W., 1979, J. Clin. Path., v. 32 (3), 284-288

Toxocara canis, humans, diagnosis, indirect microplate enzyme-linked immunosorbent assay using larval secretory antigen

Immunity, Enzyme labelling

Schantz, P. M.; Meyer, D.; and Glickman, L. T., 1979, Am. J. Trop. Med. and Hyg., v. 28 (1), 24-28

ocular toxocariasis, 17 children, clinical, serologic, and epidemiologic characteristics

Immunity, Enzyme labelling

Speiser, F.; and Weiss, N., 1979, Experientia, v. 35 (11), 1512-1514

112 sera from Europeans with parasitologically proven helminthiasis tested in enzyme-linked immunosorbent assay against 7 non-purified helminth antigens, extensive cross-reactions

Immunity, Enzyme labelling

Spencer, H. C.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 927-932

malaria, human sera, micro enzyme-linked immunosorbent assay used with in vitro-cultured *Plasmodium falciparum* as antigen

Immunity, Enzyme labelling

Spencer, H. C.; Collins, W. E.; and Skinner, J. C., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 933-936

malaria, human sera, enzyme-linked immunosorbent assay using cultured *Plasmodium falciparum* as antigen compared with indirect fluorescent antibody test

Immunity, Enzyme labelling

Szarfman, A.; et al., 1977, An. Microbiol., Rio de Janeiro, v. 22, 1976-1977, 95-103

Trypanosoma cruzi, human, diagnosis, comparison between indirect immunofluorescent and indirect immunoperoxidase tests

Immunity, Enzyme labelling

Tanaka, H.; Matsuda, H.; and Nosenas, J. S., 1979, Japan. J. Exper. Med., v. 49 (4), 289-292

Schistosoma japonicum, human, detection of antibodies by micro-technique of enzyme-linked immunosorbent assay: Leyte, Philippines

Immunity, Enzyme labelling

Tandon, A.; Zahner, H.; and Laemmler, G., 1979, Tropenmed. u. Parasitol., v. 30 (2), 189-193

Chagas' disease, human serum, new method for estimation of complement fixing antibodies (complement-enzyme linked immuno sorbent assay or CELISA) compared with haemolytic complement fixation, indirect haemagglutination, and ELISA

Immunity, Enzyme labelling

Taylor, S. M.; and Kenny, J., 1978, Vet. Parasitol., v. 4 (3), 257-264

infection of pigs with *Oesophagostomum* spp. does not affect specificity of ELISA (enzyme-linked immunosorbent assay) test for presence of antibody to *Trichinella spiralis*; cross-reactions between nematodes need not under most conditions be taken into account in interpretation of ELISA results

- Immunity, Enzyme labelling**
Taylor, S. M.; Kilpatrick, D.; and Kenny, J., 1978, Zentralbl. Vet.-Med., Reihe B, v. 25 (4), 282-289
Trichinella spiralis, pigs, evaluation of enzyme linked immuno-sorbent assay, influence of husbandry and age of host on extinction values
- Immunity, Enzyme labelling**
Tribouley-Duret, J.; et al., 1978, Ann. Parasitol., v. 53 (6), 641-648
Strongyloides stercoralis, human, diagnosis, E.L.I.S.A. with S. ratti as antigen, some cross-reactions in patients with other nematode infections, should be used in conjunction with other diagnostic methods, useful for assessing effectiveness of treatment
- Immunity, Enzyme labelling**
Vullo, V.; et al., 1979, Boll. Ist. Sieroterap. Milanese, v. 58 (2), 141-147
hydatidosis, amebiasis, urinary schistosomiasis, human, diagnosis, immunoperoxidase and immunofluorescence techniques compared
- Immunity, Enzyme labelling**
Walther, M.; and Sanitz, W., 1979, Berl. u. Munchen. Tierarztl. Wchnschr., v. 92 (7), 131-135
Taenia saginata, calves (exper.), enzyme-linked immunosorbent assay using T. saginata and T. crassiceps antigens, comparison with indirect hemagglutination during course of infection and following praziquantel treatment
- Immunity, Enzyme labelling**
Weiland, G.; and zu Dohna, H. G., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (2), 33-35
Babesia spp., mice, dogs, rabbits, enzyme-linked immunosorbent assay suitable for detection of antibodies in field surveys, cross-reactions occurred although distinct titer differences could be observed
- Immunity, Enzyme labelling**
Weiland, G.; and Schwarzhuber, A., 1978, Berl. u. Munchen. Tierarztl. Wchnschr., v. 91 (11), 209-213
visceral larva migrans, mice, dogs, humans, enzyme-linked immunosorbent assay and indirect immunofluorescence using Toxocara canis and Ascaris suum as antigens proved to be unsuitable for diagnosis, cross-reactivity with other helminths
- Immunity, Enzyme labelling**
Yang, J.; and Kennedy, M. T., 1979, J. Clin. Microbiol., v. 10 (6), 778-785
Entamoeba histolytica, human, diagnosis, development and evaluation of enzyme-linked immunosorbent assay, compared with indirect fluorescent antibody and indirect hemagglutination techniques
- Immunity, Eosinophils and eosinophilia. [See also Eosinophilia]**
- Immunity, Eosinophils and eosinophilia**
Anwar, A. R. E.; Smithers, S. R.; and Bay, A. B., 1979, J. Immunol., v. 122 (2), 628-637
Schistosoma mansoni, killing of schistosomula coated with antibody and/or complement by human leukocytes in vitro, requirement for complement in preferential killing by eosinophils
- Immunity, Eosinophils and eosinophilia**
Bass, D. A.; and Szejda, P., 1979, J. Clin. Invest., v. 64 (5), 1415-1422
Trichinella spiralis, killing of newborn larvae by human granulocytes in vitro: Larvicidal abilities of eosinophils and neutrophils, opsonin requirements, kinetics of killing, effect of inhibitors, killing ability of leukocytes from patient with chronic granulomatous disease
- Immunity, Eosinophils and eosinophilia**
Bass, D. A.; and Szejda, P., 1979, J. Clin. Invest., v. 64 (6), 1558-1564
Trichinella spiralis, killing of newborn larvae during incubation with granule preparations of human eosinophils or neutrophils and generators of hydrogen peroxide or superoxide and hydrogen peroxide
- Immunity, Eosinophils and eosinophilia**
Beeson, P. R., 1977, Ciba Found. Symp., n.s. (46), 203-223
role of eosinophil, review including some information on Trichinella spiralis
- Immunity, Eosinophils and eosinophilia**
Butterworth, A. E.; et al., 1979, J. Exper. Med., v. 150 (6), 1456-1471
Schistosoma mansoni, mechanism of irreversible eosinophil adherence to schistosomula
- Immunity, Eosinophils and eosinophilia**
Butterworth, A. E.; et al., 1979, J. Immunol., v. 122 (1), 221-229
Schistosoma mansoni, eosinophil major basic protein (MBP) can bind to and damage schistosomula, antibody-dependent eosinophil-mediated damage to schistosomula is associated with release of MBP both onto surface of organism and into culture supernatant
- Immunity, Eosinophils and eosinophilia**
Byram, J. E.; Imohiosen, E. A. E.; and von Lichtenberg, F., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 267-270
Schistosoma spp., mice, hamsters, tissue eosinophil proliferation and maturation
- Immunity, Eosinophils and eosinophilia**
Capron, M.; et al., 1978, European J. Immunol., v. 8 (2), 127-133
Schistosoma mansoni, rats, eosinophil-dependent cytotoxicity, involvement of IgG, antibody and role of mast cells, these and previous observations suggest possible participation of anaphylactic antibodies in immunity to schistosomes in the rat
- Immunity, Eosinophils and eosinophilia**
Capron, M.; et al., 1978, J. Immunol., v. 121 (6), 2518-2525
Schistosoma mansoni schistosomula, eosinophil-dependent cytotoxicity mechanism requires signal provided by soluble mast cell mediators in addition to antibody
- Immunity, Eosinophils and eosinophilia**
Capron, A.; Dessaint, J. P.; and Capron, M., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 217-230
effector mechanisms in immunity to schistosomes, comparison of 2 antibody-dependent cell-mediated cytotoxicity models (IgG-eosinophil model vs. IgE-macrophage model), colloquium presentation

- Immunity, Eosinophils and eosinophilia
Capron, M.; Torpier, G.; and Capron, A., 1979, *J. Immunol.*, v. 123 (5), 2220-2230
Schistosoma mansoni, in vitro killing of schistosomula by eosinophils from infected rats, cytophilic antibodies or immune complexes responsible for either activation or blockade of eosinophil populations
- Immunity, Eosinophils and eosinophilia
Claas, F. H. J.; and Deelder, A. M., 1979, *J. Immunogenet.*, v. 6 (3), 167-175
Schistosoma mansoni, mice of 2 congenic inbred strains, immune response (worm burden, mortality, antibody titre, spleen index, eosinophilia, delayed type hypersensitivity, in vitro response to 3 S. mansoni antigen preparations), results indicate H-2 region influences course of acute infection but not susceptibility to infection
- Immunity, Eosinophils and eosinophilia
Cohen, J.; and Spry, C. J. F., 1979, *Parasite Immunol.*, v. 1 (2), 167-178
Strongyloides stercoralis, West Indian man, associated small intestinal lymphoma causing obstruction, deficiency of T lymphocytes and eosinophils, lymphoma may have led to reduction in cellular immunity with subsequent development of Strongyloides hyperinfection
- Immunity, Eosinophils and eosinophilia
Czarnetzki, B. M., 1978, *Nature*, London (5645), v. 271, 553-554
Nippostrongylus brasiliensis, eosinophil chemotactic factor release from neutrophils after incubation with parasite larvae
- Immunity, Eosinophils and eosinophilia
Date, A.; et al., 1979, *Postgrad. Med. J.*, London (650), v. 55, 905-907
acute immune complex eosinophilic glomerulonephritis in 44-year-old man with Bancroftian filariasis, possible aetiological relationship
- Immunity, Eosinophils and eosinophilia
Densen, P.; et al., 1978, *Infect. and Immun.*, v. 22 (1), 282-285
Schistosoma mansoni, demonstration of eosinophil degranulation on surface of opsonized schistosomules by phase-contrast cinemicrography
- Immunity, Eosinophils and eosinophilia
Doy, T. G.; Hughes, D. L.; and Harness, E., 1978, *Research Vet. Sc.*, v. 25 (1), 41-44
Fasciola hepatica, rats, 3-week-old initial infection results in high degree of immunity to subsequent challenge, this resistance could be detected within 48 h of challenge and was a true immunity and not an alteration in migratory behavior, eosinophils were prevalent in lamina propria of small intestine and increased markedly after challenge
- Immunity, Eosinophils and eosinophilia
Furmaga, S.; Gundlach, J. L.; and Sobieszewski, K., 1975, *Acta Parasitol. Polon.*, v. 23 (1-11), 159-175
Fasciola hepatica-infected rabbits and sheep, white blood cell picture during course of infection
- Immunity, Eosinophils and eosinophilia
Glauret, A. M.; et al., 1978, *J. Cell Sc.*, v. 34, 173-192
Schistosoma mansoni, mechanism of antibody-dependent eosinophil-mediated damage to schistosomula in vitro, phase-contrast and electron microscopic study
- Immunity, Eosinophils and eosinophilia
Gleich, G. J.; Olson, G. M.; and Herlich, H., 1979, *Immunology*, v. 37 (4), 873-880
Trichostrongylus colubriformis, guinea pigs, effect of anti-eosinophil serum on susceptibility and acquired immunity, results point to anti-parasitic role for eosinophil in intestinal mucosa
- Immunity, Eosinophils and eosinophilia
Goven, A. J., 1979, *Internat. J. Parasitol.*, v. 9 (3), 193-198
Nippostrongylus brasiliensis, rats infected with various larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden
- Immunity, Eosinophils and eosinophilia
Goven, A. J., 1979, *Internat. J. Parasitol.*, v. 9 (4), 345-349
Nippostrongylus brasiliensis, sensitized rats challenged with varied larval doses, intestinal phospholipase activity, bone marrow eosinophilia, and worm burden
- Immunity, Eosinophils and eosinophilia
Goven, A. J.; and DeBuysscher, E. V., 1979, *Am. J. Vet. Research*, v. 40 (10), 1469-1471
Trichinella spiralis-infected swine, relation between intestinal phospholipase B activity and numbers of blood eosinophils
- Immunity, Eosinophils and eosinophilia
Houba, V.; Butterworth, A. E.; and Sturrock, R. F., 1977, *Immunopathol.*, 7. *Internat. Symp.* (Bad Schachen, Germany, June 14-19, 1976), 233-243
eosinophils and the immune response, review: blood eosinophilia; tissue eosinophilia; eosinophils and immune complexes; effector role of eosinophil in immune response; role of eosinophils in immunopathological lesions
- Immunity, Eosinophils and eosinophilia
Hsü, S. Y. L.; et al., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (4), 383-393
Schistosoma japonicum, IgE, mast cells, and eosinophils in skin of Macaca mulatta immunized with X-irradiated cercariae
- Immunity, Eosinophils and eosinophilia
James, S. L.; and Colley, D. G., 1978, *Cellular Immunol.*, v. 38 (1), 35-47
Schistosoma mansoni, eosinophil-mediated destruction of eggs in vitro, role of cytophilic antibody
- Immunity, Eosinophils and eosinophilia
James, S. L.; and Colley, D. G., 1978, *Cellular Immunol.*, v. 38 (1), 48-58
Schistosoma mansoni, eosinophil-mediated destruction of eggs, lymphokine involvement in induction of eosinophil functional abilities

- Immunity, Eosinophils and eosinophilia
James, S. L.; and Colley, D. G., 1978, *Cellular Immunol.*, v. 38 (1), 59-67
Schistosoma mansoni, eosinophil-mediated destruction of eggs, effects of several inhibitory substances on eosinophil function
- Immunity, Eosinophils and eosinophilia
Johnson, G. R.; et al., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (3), 315-322
Mesocostoides corti, peritoneal cell population of infected mice as source of eosinophils, T cell dependence of peritoneal eosinophilia
- Immunity, Eosinophils and eosinophilia
Kassis, A. I.; Aikawa, M.; and Mahmoud, A. A. F., 1979, *J. Immunol.*, v. 122 (2), 398-405
Schistosoma mansoni, mice, antibody-dependent eosinophil and macrophage adherence and damage to schistosomula
- Immunity, Eosinophils and eosinophilia
Kay, A. B., 1978, *Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977)*, 201-215
eosinophil leucocytes, formation, function, and fate in relation to helminth disease, colloquium presentation
- Immunity, Eosinophils and eosinophilia
Kay, A. B., 1979, *J. Allergy and Clin. Immunol.*, v. 64 (2), 90-104
Schistosoma mansoni, relationship among mast cell mediators, complement, and preferential killing of schistosomula by the human eosinophil, review; speculations as to why, in phylogeny, humans might have developed and retained acute allergic response
- Immunity, Eosinophils and eosinophilia
Kazura, J. W.; and Grove, D. I., 1978, *Nature*, London (5671), v. 274, 588-589
Trichinella spiralis, antibody-dependent eosinophil-mediated destruction mechanism specific for newborn larval stage, destruction of adult worms or muscle larvae not observed
- Immunity, Eosinophils and eosinophilia
Kierszenbaum, F., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 965-968
Trypanosoma cruzi, antibody-dependent killing of bloodstream forms by human peripheral blood leukocytes
- Immunity, Eosinophils and eosinophilia
Knopf, P. M., 1979, *Exper. Parasitol.*, v. 47 (2), 232-245
Schistosoma mansoni-infected rats, peripheral and tissue eosinophilia
- Immunity, Eosinophils and eosinophilia
Koenig, W., 1978, *Immun. u. Infekt.*, v. 6 (3), 97-105
eosinophil leucocytes, structure and function, review
- Immunity, Eosinophils and eosinophilia
Laubach, H.; Kocan, A. A.; and Sartain, K. E., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1145-1146
Angiostrongylus cantonensis in specific pathogen-free rats, elevated lung lysophospholipase activity and bone marrow eosinophilia due to infection are not additive with increasing worm burdens, findings suggest immune-controlled mechanism of lysophospholipase activity increase during helminth infection
- Immunity, Eosinophils and eosinophilia
Lawley, T. J.; et al., 1979, *Clin. and Exper. Immunol.*, v. 37 (2), 221-227
Schistosoma mansoni, human, circulating immune complexes: high incidence in acute disease vs. low incidence in chronic disease, parallels differences in clinical activity; levels inversely correlated with absolute eosinophil counts
- Immunity, Eosinophils and eosinophilia
Lopez, A. F.; Bunn Moreno, M. M.; and Sanderson, C. J., 1978, *Internat. J. Parasitol.*, v. 8 (6), 485-489
Trypanosoma cruzi, lysis of epimastigotes by eosinophils (entirely antibody-dependent) and neutrophils (significant antibody-independent component)
- Immunity, Eosinophils and eosinophilia
Mackenzie, C. D.; et al., 1977, *Clin. and Exper. Immunol.*, v. 30 (1), 97-104
Schistosoma mansoni, antibody (IgG)-mediated adherence of rat eosinophils to schistosomula in vitro with consequent damage to parasite
- Immunity, Eosinophils and eosinophilia
Mackenzie, C. D.; Preston, P. M.; and Ogilvie, B. M., 1978, *Nature*, London (5690), v. 276, 826-828
Trichinella spiralis, Nippostrongylus brasiliensis, surface of infective larvae and adults may activate complement but not that of newborn larvae, stage-specific antibodies to nematode cuticle are capable of mediating attack by inflammatory cells against nematode surface
- Immunity, Eosinophils and eosinophilia
McLaren, D. J.; Mackenzie, C. D.; and Ramalho-Pinto, F. J., 1977, *Clin. and Exper. Immunol.*, v. 30 (1), 105-118
Schistosoma mansoni, Trichinella spiralis, Nippostrongylus brasiliensis, in vitro interaction between rat eosinophils and parasitic helminths, ultrastructural observations, lack of morphological damage to parasite surface
- Immunity, Eosinophils and eosinophilia
McLaren, D. J.; and Ramalho-Pinto, F. J., 1979, *J. Immunol.*, v. 123 (4), 1431-1438
Schistosoma mansoni, eosinophil-mediated killing of schistosomula in vitro, synergistic effect of antibody and complement
- Immunity, Eosinophils and eosinophilia
McLaren, D. J.; Ramalho-Pinto, F. J.; and Smithers, S. R., 1978, *Parasitology*, v. 77 (3), 313-324
Schistosoma mansoni, ultrastructural evidence for complement and antibody-dependent damage to schistosomula by rat eosinophils in vitro

- Immunity, Eosinophils and eosinophilia
Mitchell, G. F., 1979, *Advances Immunol.*, v. 28, 451-511
immunological and 'paraimmunological' responses to infection with metazoan and protozoan parasites in mouse models, extensive review
- Immunity, Eosinophils and eosinophilia
Olson, C. E.; and Schiller, E. L., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 521-526
Strongyloides ratti, rats, primary and secondary infections, expulsion kinetics and intestinal mast cell counts, antithymocyte serum suppressed expulsion as well as intestinal mast cell and circulating eosinophil responses to primary infection
- Immunity, Eosinophils and eosinophilia
Perrudet-Badoux, A.; et al., 1978, *J. Reticuloendothel. Soc.*, v. 24 (3), 311-314
Trichinella spiralis, immune interaction between rat peritoneal cells (mostly macrophages and eosinophils) and parasite larvae, ultrastructural study
- Immunity, Eosinophils and eosinophilia
Phillips, S. M.; and Colley, D. G., 1978, *Progr. Allergy*, v. 24, 49-182
schistosomiasis with emphasis on Schistosoma mansoni, immunologic aspects of host responses, extensive review: cellular and humoral immune response; immunopathology; eosinophils
- Immunity, Eosinophils and eosinophilia
Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (2), 237-246
Nematospiroides dubius, mice, one or more immunizing infections, development of immunity, absolute and differential cell levels in blood and peritoneum, serum concentrations of various immunoglobulin classes, results suggest that macrophages and eosinophils may play separate roles in immunity to this parasite
- Immunity, Eosinophils and eosinophilia
Ramalho-Pinto, F. J.; De Rossi, R.; and Smithers, S. R., 1979, *Parasite Immunol.*, v. 1 (4), 295-308
Schistosoma mansoni, mice, anti-schistosoma antibodies and IgG subclasses involved in complement- and eosinophil-mediated killing of schistosomula in vitro
- Immunity, Eosinophils and eosinophilia
Ramalho-Pinto, F. J.; McLaren, D. J.; and Smithers, S. R., 1978, *J. Exper. Med.*, v. 147 (1), 147-156
Schistosoma mansoni, complement-mediated killing of schistosomula by rat eosinophils in vitro
- Immunity, Eosinophils and eosinophilia
Sanderson, C. J.; and de Souza, W., 1979, *J. Cell Sc.*, v. 37, 275-286
Trypanosoma cruzi, interaction with rat eosinophils, neutrophils, and macrophages in vitro, light and electron microscopy
- Immunity, Eosinophils and eosinophilia
Sher, A., 1977, *Progr. Immunol. III*, 688-695
Schistosoma mansoni, mice, effector mechanisms in host response, review
- Immunity, Eosinophils and eosinophilia
Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1979, *Internat. J. Parasitol.*, v. 9 (4), 323-331
Taenia crassiceps, mice, ultrastructural aspects of host cellular immune response to metacestodes
- Immunity, Eosinophils and eosinophilia
da Silva, L. C.; et al., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (2), 121-130
Schistosoma mansoni, humans, immunodiffusion, hemagglutination, immunofluorescence and eosinophil counts before and after therapy with hycanthone or niridazole
- Immunity, Eosinophils and eosinophilia
Spry, C. J. F., 1978, *Schweiz. Med. Wchnschr.*, v. 108 (41), 1572-1576
eosinophils as effector cells in disease
- Immunity, Eosinophils and eosinophilia
Tanaka, J.; Baba, T.; and Torisu, M., 1979, *J. Immunol.*, v. 122 (1), 302-308
Ascaris suum, eosinophil chemotactic factor of parasite (ECF-P), isolation, characterization, not identical to Ascaris antigens, neutrophil chemotactic factor also present in Ascaris extract is separable from ECF-P
- Immunity, Eosinophils
Tanaka, J.; and Torisu, M., 1978, *J. Immunol.*, v. 120 (3), 745-749
Anisakis, detection of soluble factor selectively chemotactic for eosinophils in extract from larvae found to be active in both in vivo and in vitro chemotaxis assay systems, comparison with extract from Ascaris suum, results indicate that this factor may play important role in development of eosinophilia in anisakiasis
- Immunity, Eosinophils and eosinophilia
Tronchin, G.; et al., 1979, *J. Parasitol.*, v. 65 (5), 685-691
Trichinella spiralis, infected mice, mice immunized with metabolic antigens, mice immunized and then infected, kinetics of intestinal cell response (mast cells, leukocytes, polymorphonuclear eosinophils)
- Immunity, Eosinophils and eosinophilia
Tsuda, S.; Fukuyama, K.; and Epstein, W. L., 1979, *J. Immunol.*, v. 122 (6), 2554-2557
Schistosoma mansoni-infected mice, low molecular weight eosinophil chemotactic factor in granulomatous liver
- Immunity, Eosinophils and eosinophilia
Vadas, M. A.; et al., 1979, *J. Immunol.*, v. 122 (4), 1228-1236
Schistosoma mansoni, new method for purification of human eosinophils and neutrophils, comparison of ability of these cells to damage schistosomula
- Immunity, Eosinophils and eosinophilia
Waller, P. F.; and Goetzl, E. J., 1979, *Advances Immunol.*, v. 27, 339-371
eosinophils, regulatory and effector roles, review including role of eosinophil in host response to helminthic infections

- Immunity, Eosinophils and eosinophilia
Walls, R. S.; 1976, South African Med. J., v. 50 (34), 1313-1318
soluble antigen derived from body fluid of *Ascaris lumbricoides* injected into mice to examine specificity of eosinophilic response, specificity demonstrated in primed lymphoid cells, evidence suggests that these lymphocytes are T cells
- Immunity, Eosinophils and eosinophilia
Wasson, D. L.; and Gleich, G. J., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 860-863
Trichinella spiralis, purified eosinophil major basic protein damaged newborn larvae when added to in vitro cultures
- Immunity, Fluorescent antibody. See Immuno-fluorescence.
- Immunity, Gel diffusion. See Immunity, Precipitation.
- Immunity, Hemagglutination. See Immunity, Agglutination.
- Immunity, Hybridomas. See Immunity, Monoclonal antibodies.
- Immunity, Hypersensitivity, Delayed. See Immunity, Cell-mediated.
- Immunity, Hypersensitivity, Immediate. See Immunity, Allergy.
- Immunity, Immobilization
Tewari, H. C.; and Singh, (Kr.) S., 1979, Indian J. Animal Sc., v. 49 (8), 643-645
Schistosoma incognitum miracidia, effects of normal and immune sera and of complement
- Immunity, Immune complexes
Adam, C.; et al., 1978, Protides Biol. Fluids, v. 26, 219-223
schistosomiasis, filariasis, human, C3d and immune complex levels
- Immunity, Immune complexes
Allison, A. C.; and Houba, V., 1976, Immunol. Parasit. Infect., 436-447
immunopathology due to complexes of antigen and antibody (Type III reactions) in parasitic infections
- Immunity, Immune complexes
Andrade, Z. A.; and Rocha, H., 1979, Kidney Internat., v. 16 (1), 23-29
Schistosoma mansoni, glomerulopathy, clinical manifestations, pathology, immunopathology, therapy, humans
- Immunity, Immune complexes
Attallah, A. M.; et al., 1979, J. Immunol., v. 122 (4), 1413-1420
Schistosoma mansoni, mice, changes in composition and functional capacity of T and B cell subpopulations during acute infection, both suppressor cells and immune complexes contribute to these changes
- Immunity, Immune complexes
Balber, A. E.; et al., 1979, Infect. and Immun., v. 24 (3), 617-627
Trypanosoma brucei, *T. congolense*, inactivation or elimination of potentially trypanolytic complement-activating immune complexes containing antibodies to variant-specific antigens
- Immunity, Immune complexes
Barsoum, R. S.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 367-374
schistosomiasis, humans with nephrotic syndrome, renal biopsy showed amyloid deposits, speculation that deposits are associated with circulating immune complexes
- Immunity, Immune complexes
Basson, W.; Page, M. L.; and Myburgh, D. P., 1977, South African Med. J., v. 51 (14), 453-457
trypanosomiasis, humans, problems in diagnosis and management emphasizing haematological and immunological aspects, clinical course in 5 cases, indications of continuation of immune complex process in spite of therapy that eradicates parasite: Voortrekkerhoogte, Tvl.
- Immunity, Immune complexes
Boonpucknavig, S.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (4), 79-83
Plasmodium berghei, mice, treatment with carbon particles in attempt to block macrophages, alterations in immune response, immunopathology, and histology patterns
- Immunity, Immune complexes
Boonpucknavig, V.; Boonpucknavig, S.; and Bhamarapravati, N., 1979, Arch. Path. and Lab. Med., v. 103 (11), 567-572
Plasmodium berghei *berghei*-infected mice treated with chloroquine phosphate, focal glomerulonephritis in hyperimmune state, clinical, immunopathologic, and histopathologic findings
- Immunity, Immune complexes
Boreham, P. F. L.; and Parry, M. G., 1979, Advances Biosciences, v. 17, 85-92
Trypanosoma brucei, rabbits, role of urinary and plasma kallikreins in pathogenesis, immune complexes
- Immunity, Immune complexes
Bout, D.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 35-38
Schistosoma mansoni, characterization of immunoglobulins and antigens involved in immune complexes
- Immunity, Immune complexes
Capron, M.; Torpier, G.; and Capron, A., 1979, J. Immunol., v. 123 (5), 2220-2230
Schistosoma mansoni, in vitro killing of schistosomula by eosinophils from infected rats, cytophilic antibodies or immune complexes responsible for either activation or blockade of eosinophil populations
- Immunity, Immune complexes
Casali, P.; and Lambert, P. H., 1979, Clin. and Exper. Immunol., v. 37 (2), 295-309
purification of soluble immune complexes from serum using polymethylmethacrylate beads coated with conglutinin or Clq, application to analysis of components of immune complexes including those occurring in vivo during disseminated leishmaniasis
- Immunity, Immune complexes
Chugh, K. S.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 630-631
filariasis, man, associated mesangio-proliferative glomerulonephritis possibly an immune-complex reaction, case report

Immunity, Immune complexes

Clarke, J. R.; Chassoux, D.; and MacLennan, I. C. M., 1978, *Protides Biol. Fluids*, v. 26, 225-228

Dipetalonema viteae-infected hamsters, assessment of neutrophil activating factors (putative immune complexes) in serum

Immunity, Immune complexes

Danno, K.; Fukuyama, K.; and Epstein, W. L., 1979, *Lab. Invest.*, v. 40 (3), 358-363
Schistosoma mansoni, infection induces T-cell-independent autoantibody (antinuclear antibody) in athymic mice and T-cell-dependent antischistosome antibodies in thymus-intact mice, both types of antibodies deposit in kidneys as immunocomplexes

Immunity, Immune complexes

Date, A.; et al., 1979, *Postgrad. Med. J.*, London (650), v. 55, 905-907
acute immune complex eosinophilic glomerulonephritis in 44-year-old man with Bancroftian filariasis, possible aetiological relationship

Immunity, Immune complexes

Deelder, A. M.; Van Dalen, D. P.; and Van Egmond, J. G., 1978, *Exper. Parasitol.*, v. 44 (2), 216-224
Schistosoma mansoni, microfluorometric determination (using DASS system) of circulating anodic antigen and antigen-antibody complexes in infected hamster serum

Immunity, Immune complexes

De Simone, C.; et al., 1978, *Quad. Sclavo Diag. Clin. e Lab.*, v. 14 (4), 443-450
Schistosoma haematobium, infected humans had significantly higher rosette inhibition test values than did normal persons, inhibition probably due to immune complexes

Immunity, Immune complexes

Digeon, M.; et al., 1979, *Clin. and Exper. Immunol.*, v. 35 (3), 329-337
Schistosoma mansoni, mice, IgG and IgM but not IgA anti-schistosome antibodies, circulating immune complexes containing schistosomal antigen, glomerular mesangial deposits of IgA, IgM, and C3

Immunity, Immune complexes

Facer, C. A.; et al., 1978, *Exper. Parasitol.*, v. 44 (2), 249-261
Trypanosoma brucei, rabbits, renal pathology, glomerular changes result from deposition of soluble trypanosome immune complexes, tubular changes are typical of tissue ischemia, trypanosomiasis in rabbit could be valuable model

Immunity, Immune complexes

Fruit, J.; et al., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (4-5), 257-266
Trypanosoma gambiense, humans, T. brucei, rats, immune complexes, characterization by radioimmunoprecipitation

Immunity, Immune complexes

Galbraith, R. M.; et al., 1978, *Protides Biol. Fluids*, v. 26, 229-232
Plasmodium falciparum, 10 Gambians with pregnancies complicated by maternal malaria, marked increase in complement components in placentae

Immunity, Immune complexes

Geniteau, M.; et al., 1977, *Clin. and Exper. Immunol.*, v. 30 (1), 141-144
Trichinella spiralis, circulating immune complexes present in sera of 6 patients, role in pathogenesis of clinical symptoms uncertain

Immunity, Immune complexes

Gibson, D. W.; and Connor, D. H., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (2), 137-154
Onchocerca volvulus, clinicopathologic study of 34 patients with lymphadenitis, possible role of immune complexes: Africa; Yemen

Immunity, Immune complexes

Greenwood, B. M.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 378-385
Plasmodium falciparum, children, no evidence that any of several immunological factors investigated plays important role in pathogenesis of anemia

Immunity, Immune complexes

Hendrickse, R. G.; and Adeniyi, A., 1979, *Kidney Internat.*, v. 16 (1), 64-74
Plasmodium malariae, children, causing immune complex nephritis, presenting clinical and biochemical findings, renal pathology

Immunity, Immune complexes

Houba, V., 1977, *Progr. Immunol. III*, 681-687
immunopathology mechanisms in certain tropical parasitic diseases, review

Immunity, Immune complexes

Houba, V., 1979, *Kidney Internat.*, v. 16 (1), 3-8
malaria, man and exper. animals, studies show that immune complexes play important role in pathogenesis of nephropathies associated with parasite infections, general review

Immunity, Immune complexes

Houba, V., 1979, *Kidney Internat.*, v. 16 (1), 30-43
schistosomiasis, experimental renal disease, extensive review

Immunity, Immune complexes

Houba, V.; Butterworth, A. E.; and Sturrock, R. F., 1977, *Immunopathol.*, 7. Internat. Symp. (Bad Schachen, Germany, June 14-19, 1976), 233-243
eosinophils and the immune response, review: blood eosinophilia; tissue eosinophilia; eosinophils and immune complexes; effector role of eosinophil in immune response; role of eosinophils in immunopathological lesions

Immunity, Immune complexes

Houba, V.; Sturrock, R. F.; and Butterworth, A. E., 1978, *Protides Biol. Fluids*, v. 26, 209-213
schistosomiasis, role of immune complexes in pathogenesis of lesions, review

Immunity, Immune complexes

Howell, M. J.; and Sandeman, R. M., 1979, *Internat. J. Parasitol.*, v. 9 (1), 41-45
Fasciola hepatica, precipitate which forms when metacercariae are cultured in immune rat serum is a complex of parasite metabolic antigen and rat Ig (possibly IgG), vaccination of rats with precipitate in FCA confers significant degree of protection

Immunity, Immune complexes

- Joseph, M.; et al., 1978, Clin. and Exper. Immunol., v. 33 (1), 48-56
Schistosoma mansoni, cytotoxicity of human and baboon mononuclear phagocytes against schistosomula in vitro, induction by immune complexes containing IgE and parasite antigens

Immunity, Immune complexes

- June, C. H.; et al., 1979, J. Immunol., v. 122 (6), 2154-2161
Plasmodium berghei, mice, circulating and tissue-bound immune complex formation

Immunity, Immune complexes

- June, C. H.; et al., 1979, J. Immunol. Methods, v. 31 (1-2), 23-29
improved detection of immune complexes in human and mouse serum using microassay adaptation of Clq binding test, patient serum included some with malaria

Immunity, Immune complexes

- Kekomaki, R.; and Penttinen, K., 1979, J. Clin. and Lab. Immunol., v. 1 (4), 305-309
platelets and ^{125}I -labelled staphylococcal protein A in detection of immune complexes in serum, serum samples from patients with various diseases including onchocerciasis and schistosomiasis

Immunity, Immune complexes

- Lawley, T. J.; et al., 1979, Clin. and Exper. Immunol., v. 37 (2), 221-227
Schistosoma mansoni, human, circulating immune complexes: high incidence in acute disease vs. low incidence in chronic disease, parallels differences in clinical activity; levels inversely correlated with absolute eosinophil counts

Immunity, Immune complexes

- Lindsley, H. B.; Nagle, R. B.; and Stechschulte, D. J., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 864-872
Trypanosoma rhodesiense-infected rats, proliferative glomerulonephritis, hypocomplementemia, nucleic acid antibodies, feasibility of rat as model host

Immunity, Immune complexes

- Nasah, B. T.; and Cox, J. N., 1978, Virchows Arch. A, Path. Anat. and Histol., v. 377 (3), 225-236
vascular lesions in testes of 40 of 41 infertile males with oligospermia postulated to be result of repeated formation and deposition of circulating immune complexes, antigens could be of various origins including living or dying parasites, evidence of parasitic testicular involvement (possibly filaria) in 2 cases: Cameroon

Immunity, Immune complexes

- Onyewotu, I. I., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 386-388
circulating immune complexes in 38 of 50 apparently healthy Nigerians, 6 of these 38 had significant anti-complementary activity and high IgM levels, 5 of these 6 showed malarial parasitemia, 4 of these 6 after malarial prophylaxis lost their anti-complementary activity with parallel fall in IgM

Immunity, Immune complexes

- Parbtani, A.; and Cameron, J. S., 1979, Kidney Internat., v. 16 (1), 53-63
Plasmodium spp., exper. infections in mice, nephritis dependent upon deposition of immune complexes in the kidney accompanies acute infections

Immunity, Immune complexes

- Poels, L. G.; van Niekerk, C. C.; and Jerusalem, C., 1978, Israel J. Med. Sc., v. 14 (6), 651-654
Plasmodium berghei, mice, formation of two types of immune complex (one with and one lacking plasmodial antigens) and their deposition in renal glomeruli, immune complexes lacking parasite antigen may be involved in secondary autoimmune (anti-smooth muscle) process, possible induction mechanism of autoantibodies, symposium presentation

Immunity, Immune complexes

- Pugin, P.; et al., 1978, Schweiz. Med. Wchnschr., v. 108 (41), 1602
Leishmania donovani, 33 year old woman, isolation and characterization of circulating immune complexes present in high concentration, probable participation in pathogenesis

Immunity, Immune complexes

- Razzakov, Sh. A., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (2), 148-152
echinococcal or alveococcal antigen-antibody complexes used to immunize rabbits, resulting sera with narrow specificity, useful for immunochemical analysis of echinococcal or alveococcal antigens

Immunity, Immune complexes

- Rest, J. R.; and Wright, D. H., 1979, J. Path., v. 127 (5), 115-120
Plasmodium berghei-infected Mesocricetus auratus, cerebral lesions, transmission and scanning electron microscopy, hypothesized that pathogenesis relates to immune complex formation

Immunity, Immune complexes

- Richard-Lenoble, D.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 553-560
hydatidosis, human, serodiagnosis (radioimmunoassay, indirect haemagglutination, immuno-electrodifffusion), subclasses of specific anti-hydatid immunoglobulin, detection of circulating immune complexes

Immunity, Immune complexes

- Rickman, W. J.; and Cox, H. W., 1979, J. Parasitol., v. 65 (1), 65-73
Trypanosoma brucei rhodesiense-infected rats, syndrome characterized by anemia, splenomegaly, and glomerulonephritis, accompanied by presence of 3 autoantibodies and by presence of fixed complement and fibrinogen on trypanosomes and erythrocytes

Immunity, Immune complexes

- de Rouse, A. R.; and Romero M., J., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (6), 362-367
Schistosoma mansoni-infected mice, ultrastructure of kidney lesions, characterized as immune complex disease

Immunity, Immune complexes

- Santoro, F.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (3), 152-156
Schistosoma mansoni, humans, mice, sera tested for immune complexes using precipitation by polyethylene glycol and complement fixation test

Immunity, Immune complexes

- Santoro, F.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 39-42
Schistosoma mansoni, characterization of complement fractions, inversely proportional correlation between C₃ and immune-complex levels in serum of infected patients

Immunity, Immune complexes

- Santoro, F.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 156-160
Schistosoma mansoni, sera from infected patients, characterization and quantitation of immunoglobulins present in immune complexes

Immunity, Immune complexes

- Santoro, F.; et al., 1978, Clin. and Exper. Immunol., v. 32 (3), 435-442
Schistosoma mansoni-infected rats, detection of circulating schistosome antigens (CSA) and circulating immune complexes (CIC), possible role played by CIC in protective mechanisms to challenge infection

Immunity, Immune complexes

- Santoro, F.; Bout, D.; and Capron, A., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (5), 293-297
Schistosoma mansoni, humans, immune complexes higher in sub-clinical and hepato-intestinal forms than in hepatosplenic forms, detection by precipitation, radioimmunoassay and complement fixation compared

Immunity, Immune complexes

- Santoro, F.; Liebart, M. C.; and Capron, A., 1978, Protides Biol. Fluids, v. 26, 215-218
Schistosoma mansoni, human, circulating antigens, antibodies, and immune complexes in milk from infected mothers

Immunity, Immune complexes

- Santoro, F.; Vandemeulebroucke, B.; and Capron, A., 1979, Exper. Parasitol., v. 47 (3), 392-402
Schistosoma mansoni-infected mice, circulating antigens and immune complexes

Immunity, Immune complexes

- Shear, H. L.; Nussenzweig, R. S.; and Bianco, C., 1979, J. Exper. Med., v. 149 (6), 1288-1298
Plasmodium berghei-infected mice, phagocytosis of erythrocytes by spleen macrophages appears to be mediated by Ig on surface; other indications of spleen macrophage activation; phagocytosis is inhibited later in infection by serum factors possibly immune complexes; high levels of anti-Forssman antibodies

Immunity, Immune complexes

- de Siqueira, A. F.; Ferriolli Filho, F.; and Ribeiro, R. D., 1979, Rev. Brasil. Pesqui. Med. e Biol., v. 12 (1), 75-79
Trypanosoma cruzi-infected rats, early immune reactions suggest relationship between circulation of antigens, formation of antigen-antibody complexes, and the fixation of complement by these complexes

Immunity, Immune complexes

- Stockinger, H.; and Koenig, W., 1979, Behring Inst. Mitt. (64), 127-130
Nippostrongylus brasiliensis, rats, effects of cell-bound and circulating immune complexes on lymphocyte proliferation, suggested that immune complexes mediate diminution in mitogenic responsiveness

Immunity, Immune complexes

- Verroust, P. J.; et al., 1979, Kidney Internat., v. 16 (1), 9-14
schistosomiasis, filariasis, hydatidosis, human, circulating immune complexes, C3d levels, complement activation by parasite antigens

Immunity, Immune complexes

- Weisinger, J. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 357-359
Leishmania donovani, human, case report, kidney involvement demonstrated clinically and histologically, deposits of immune complexes: University Hospital of Caracas, Venezuela

Immunity, Immune complexes

- Weiss, M. L., 1978, Israel J. Med. Sc., v. 14 (6), 655-658
Plasmodium berghei-infected mice, immune complexes in lungs, symposium presentation

Immunity, Immune complexes

- Woo, P. T. K.; and Kobayashi, A., 1975, Ann. Soc. Belge Med. Trop., v. 55 (1), 37-45
Trypanosoma brucei-infected rabbits, postulation on mechanism of anemia (that red blood cells are coated on surface by trypanosome antigen-antibody complexes and that these cells under certain conditions are lysed by complement or agglutinated and removed by spleen)

Immunity, Immune complexes

- Wright, I. G., 1979, Gen. Pharmacol., v. 10 (4), 319-325
Babesia, *Plasmodium*, *Trypanosoma*, kallikrein-kinin system, mechanisms of activation (parasite enzymes, immune complexes), role in hypotensive shock syndrome of infected animals, review

Immunity, Immune complexes

- Wright, I. G.; and Boreham, P. F. L., 1977, Biochem. Pharmacol., v. 26 (5), 417-423
Trypanosoma brucei, rabbits, chronic infections, urine volume, urinary kallikrein, effects of inhibitors on properties, excretion of elevated levels of urinary kallikrein considered to be due to glomerular damage and possibly to activation of plasma kallikrein by parasite and by parasite/antibody complexes

Immunity, Immune complexes

- Zubler, Rudolf H.; and Lambert, P. H., 1978, Progr. Allergy, v. 24, 1-48
methods for detection of immune complexes in human diseases, extensive review

Immunity, Innate. See Immunity, Native.

Immunity, Intradermal tests. See Immunity, Skin tests.

Immunity, Leucocyte migration inhibition test.
See Immunity, Macrophage migration test.

Immunity, Lymphocyte transformation

Dixon, J. B.; et al., 1978, *J. Parasitol.*, v. 64 (5), 949-950
Echinococcus granulosus, blastic stimulation of unprimed mouse lymphocytes by living protoscolices, possible connection with transplant immunity

Immunity, Lymphocyte transformation

Gold, D.; et al., 1978, *J. Parasitol.*, v. 64 (5), 866-873
Entamoeba histolytica, serologic and cell-mediated immune responses of Mesocricetus auratus exposed to 2 parasite strains, indirect hemagglutination test, lymphocyte transformation, migration inhibition of macrophages, some evidence of immunosuppression

Immunity, Lymphocyte transformation

Grieve, R. B.; Gebhardt, B. M.; and Bradley, R. E., sr., 1979, *Internat. J. Parasitol.*, v. 9 (4), 275-279
Dirofilaria immitis, dogs (exper.), cell-mediated (lymphocyte transformation assay) and humoral (indirect hemagglutination assay) immune responses, diminished mitogen responsiveness

Immunity, Lymphocyte transformation

Lewert, R. M.; Yogore, M. G., jr.; and Blas, B. L., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 92-98
Schistosoma japonicum, humans, assay of lymphocyte blast transformation by whole blood culture technique under field laboratory conditions, measurement of response to phytohemagglutinin and to worm and egg antigens in relation to host age, sex, and level of egg excretion

Immunity, Lymphocyte transformation

Ljungstroem, I.; and Sundqvist, K. G., 1979, *Clin. and Exper. Immunol.*, v. 38 (2), 381-388
Trichinella spiralis, mice, macrophage-dependent activation of T lymphocytes reflected as spontaneous DNA synthesis in vitro

Immunity, Lymphocyte transformation

Maddison, S. E.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 955-961
Toxoplasma gondii, 31 patients 3 months after outbreak, lymphocyte proliferative responsiveness (normal to nonspecific mitogens and increased to T. gondii antigen)

Immunity, Lymphocyte transformation

Moiraghi Ruggenini, A.; et al., 1978, *Boll. Ist. Sieroterap. Milanese*, v. 57 (2), 140-151
Toxoplasma gondii, human, lymphocyte blastogenesis

Immunity, Lymphocyte transformation

Ottesen, E. A.; et al., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 38-47
Schistosoma mansoni, patients with acute, subacute, and chronic disease before and after niridazole treatment, lymphocyte responsiveness to schistosome antigens, possible implications of diminished cellular immune reactivity in chronic disease state

Immunity, Lymphocyte transformation

Perez, H.; Perez, M.; and Payares, G., 1973, *Rev. Brasil. Biol.*, v. 33 (4), 547-552
Schistosoma mansoni-infected mice, activation of spleen lymphocytes when cells cultured in presence of soluble fractions of adult worms, effects observed in mice with infections of 40 days or longer but not in mice treated with antimonials

Immunity, Lymphocyte transformation

Reiner, N. E.; et al., 1979, *J. Infect. Dis.*, v. 140 (2), 162-168
Schistosoma mansoni, patients with advanced chronic hepatosplenic disease, concurrent responses of peripheral blood and splenic mononuclear cells to antigenic and mitogenic stimulation

Immunity, Lymphocyte transformation

Riffkin, G. G.; and Dobson, C., 1979, *Vet. Parasitol.*, v. 5 (4), 365-378
Haemonchus contortus, in vitro response of sheep lymphocytes to parasite antigens varied between animals but was heritable and positively correlated with resistance to infection, sheep which were most susceptible had lowest lymphocyte responses but highest rate weight gain during infection

Immunity, Lymphocyte transformation

Roelants, G. E.; et al., 1977, *Protides Biol. Fluids*, v. 25, 743-745
Theileria parva, lymphocyte transformation

Immunity, Lymphocyte transformation

Sharma, M. K.; Anaraki, F.; and Ala, F., 1978, *Clin. and Exper. Immunol.*, v. 32 (3), 477-483
Leishmania tropica, in vitro suppression of lymphocyte blastogenic response to mitogen and antigen

Immunity, Lymphocyte transformation

Strickland, G. T., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 198-203
Plasmodium-infected humans, sera are mitogenic for mouse splenic lymphocytes and interfere with indirect hemagglutination test for lipid-A antibodies

Immunity, Lymphocyte transformation

Strickland, G. T.; DeSilva, S.; and Sayles, P. C., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 35-42
Plasmodium yoelii infection in mice and P. falciparum and P. vivax infection in humans, changes in lymphocyte populations during acute infections thought to be related to development of malarial immunity and immunodepression

Immunity, Lymphocyte transformation

Taylor, D. W.; and Siddiqui, W. A., 1978, *Infect. and Immun.*, v. 21 (1), 147-150
Plasmodium falciparum, suppression of lymphocyte transformation by plasma from acutely infected Aotus trivirgatus griseimembra

Immunity, Lymphocyte transformation

Weiss, N., 1978, *Exper. Parasitol.*, v. 46 (2), 283-299

Dipetalonema viteae in 2 strains of hamster, lymphocyte blastogenesis (during different stages of primary infection, after injection of dead larvae, after implantation of adult worms, in mixed infection with *Schistosoma mansoni*), attempt to relate results with parasitological findings and with humoral immune response, analysis of cellular unresponsiveness to filarial antigens in chronically infected LAKZ hamsters

Immunity, Lymphocyte transformation

Weissberger, H.; and Spira, D. T., 1978, *Israel J. Med. Sc.*, v. 14 (5), 590-595

Plasmodium berghei, lymphoblast transformation in rats convalescent from one week to one year from infections of varying intensities, symposium presentation

Immunity, Lymphocyte transformation

Welch, J. S.; Dobson, C.; and Freeman, C., 1979, *Austral. Vet. J.*, v. 55 (6), 265-274

Dirofilaria immitis, *Toxocara canis*, dogs, epidemiological survey, host age, sex, and breed, immunodiagnosis (3 immunofluorescence tests, in vitro lymphocyte blastogenesis); prevalence of serum antibody in man proportional to incidence of canine infections: Queensland; Central Australia

Immunity, Lymphocyte transformation

Weller, P. F., 1978, *Cellular Immunol.*, v. 37 (2), 369-382

Brugia pahangi, rats, sequential changes in cell-mediated immunity studied by following in vitro lymphocyte blastogenesis to filarial stage-specific antigens and to B- and T-cell mitogens during acute and chronic infection, possible model for immunological studies of filarial infections

Immunity, Lymphocyte transformation

Wikel, S. K.; Graham, J. E.; and Allen, J. R., 1978, *Immunology*, v. 34 (2), 257-263

Dermacentor andersoni, guinea pigs, development of resistance after one infestation, presence of cell-mediated immune component indicated by delayed skin reactivity and in vitro lymphocyte responsiveness to salivary gland antigen, evidence suggests that tick infestation might induce degree of immunosuppression in host

Immunity, Lymphocyte transformation

Wyler, D. J.; Weinbaum, F. I.; and Herrod, H. R., 1979, *J. Infect. Dis.*, v. 140 (2), 215-221

leishmaniasis patients and control subjects, in vitro proliferative responses of lymphocytes to leishmanial antigens

Immunity, Lysis

Balher, A. E.; et al., 1979, *Infect. and Immun.*, v. 24 (3), 617-627

Trypanosoma brucei brucei, *T. congolense*, inactivation or elimination of potentially trypanolytic complement-activating immune complexes containing antibodies to variant-specific antigens

Immunity, Lysis

Krettli, A. U.; Weisz-Carrington, P.; and Nussenzweig, R. S., 1979, *Clin. and Exper. Immunol.*, v. 37 (3), 416-423

Trypanosoma cruzi, in vitro lysis of blood-stream forms mediated by antibodies and complement, strain differences in susceptibility to lysis

Immunity, Lysis

Lopez, A. F.; Bunn Moreno, M. M.; and Sanderson, C. J., 1978, *Internat. J. Parasitol.*, v. 8 (6), 485-489

Trypanosoma cruzi, lysis of epimastigotes by eosinophils (entirely antibody-dependent) and neutrophils (significant antibody-independent component)

Immunity, Lysis

Rifkin, M. R., 1978, *Exper. Parasitol.*, v. 46 (2), 189-206

Trypanosoma brucei, cytotoxic reaction induced by normal human serum, some properties of the trypanocidal factor, complement activation not required

Immunity, Lysis

Rifkin, M. R., 1978, *Exper. Parasitol.*, v. 46 (2), 207-212

Trypanosoma brucei, new radioisotope assay for quantitating cell lysis, used to quantitate trypanocidal activity in normal human serum

Immunity, Macrophage migration inhibition test.

See Immunity, Macrophage migration test.

Immunity, Macrophage migration test

Barros, M. A. M.T.; et al., 1979, *Clin. and Exper. Immunol.*, v. 38 (2), 376-380

Trypanosoma cruzi, patients with chronic myocardiopathy vs. indeterminate phase of Chagas' disease, leucocyte migration inhibition test using parasite vs. heart antigens

Immunity, Macrophage migration test

Boron-Kaczmarek, A.; et al., 1978, *Zentralbl. Bakteriol., 1. Abt. Orig., Reihe A*, v. 240 (4), 538-541

Taenia saginata, leukocyte migration inhibition test with polysaccharide antigen C of *Taenia* evaluated in infected and uninfected humans, results demonstrate that infection brings about a cellular hypersensitivity reaction of delayed type

Immunity, Macrophage migration test

Braescher, H. M.; et al., 1977, *Rev. Brasil. Pesqui. Med. e Biol.*, v. 10 (4), 255-260

[*Trypanosoma*] *cruzi*, leucocyte migration inhibition using soluble and particulate antigens and leucocytes from patients with chronic Chagas disease, results showed that stimulatory capacity of particulate antigens is greater than that of soluble antigens

Immunity, Macrophage migration test

Dharmkrong-at, A.; Uahkowitzchai, V.; and Sirisinha, S., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (3), 330-337

Angiostrongylus cantonensis, rats (exper.) humoral and cell-mediated immune responses to somatic and metabolic antigens analyzed using hemagglutination, macrophage migration inhibition, and cutaneous hypersensitivity tests

- Immunity, Macrophage migration test
Ganguly, N. K.; et al., 1979, Indian J. Med. Research, v. 70, 17-21
Entamoeba histolytica, isolation of antigen fraction responsible for delayed hypersensitivity in amoebiasis, macrophage migration inhibition
- Immunity, Macrophage migration test
Gold, D.; et al., 1978, J. Parasitol., v. 64 (5), 866-873
Entamoeba histolytica, serologic and cell-mediated immune responses of Mesocricetus auratus exposed to 2 parasite strains, indirect hemagglutination test, lymphocyte transformation, migration inhibition of macrophages, some evidence of immunosuppression
- Immunity, Macrophage migration test
Matossian-Rogers, A., 1979, Clin. and Exper. Immunol., v. 36 (1), 38-45
Leishmania enriettii, L. tropica major, guinea pigs, macrophage spreading test in vitro, correlation with delayed hypersensitivity in vivo
- Immunity, Macrophage migration test
Patrullo, A.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 425-426
Trypanosoma cruzi, human, leucocyte migration inhibition test with 3 antigenic fractions and whole homogenate, flagellar fraction proved to be antigen of choice, low incidence of positive response in patients with cardiomyopathy when compared with asymptomatic but serologically positive patients
- Immunity, Macrophage migration test
Reis, A. P.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 422-426
Trypanosoma cruzi, mice infected with different parasite strains, presence of delayed hypersensitivity demonstrated by leukocyte inhibition migration technique
- Immunity, Macrophage migration test
del Rey Calero, J.; Calbo Torrecillas, F.; and Gonzalez Rodriguez Salinas, M. C., 1972, Rev. Clin. Espan., v. 125 (6), 485-490
human toxoplasmosis, investigations of cellular basis for hypersensitivity using the macrophage migration test
- Immunity, Macrophage migration test
Saeki, H., 1975, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 44 (5), 309-321
anisakiasis, studies on cell-mediated immunity in exper. guinea pigs and rabbits, positive skin test reactions suggest presence of delayed hypersensitivity, macrophage migration test proved more sensitive than skin tests and is suggested for use in study of immunity of anisakiasis
- Immunity, Monoclonal antibodies
Mitchell, G. F.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (3), 287-302
Mesocricetus corti, mice, development of sensitive and specific prototype immunodiagnostic reagent based on use of an anti-parasite hybridoma antibody
- Immunity, Monoclonal antibodies
Verwaerde, C.; et al., 1979, Compt. Rend. Acad. Sc., Paris, v. 289, s. D, Sc. Nat. (10), 725-727
monoclonal antibodies against Schistosoma mansoni, production, biological activities
- Immunity, Native
Bradley, D. J., 1977, Clin. and Exper. Immunol., v. 30 (1), 130-140
Leishmania donovani, acute growth rates in 25 inbred mouse strains fall into susceptible and resistant groups, breeding experiments show that single gene or linkage group controls acute susceptibility to this parasite in the mouse
- Immunity, Native
Bradley, D. J.; et al., 1979, Clin. and Exper. Immunol., v. 37 (1), 7-14
Leishmania donovani, mapping of locus controlling susceptibility in the mouse
- Immunity, Native
Bradley, D. J.; and Kirkley, J., 1977, Clin. and Exper. Immunol., v. 30 (1), 119-129
Leishmania donovani, course of infection and pathology in 7 strains of mice with varying degrees of susceptibility, results demonstrate strong control by genetic constitutions of host and provide model for study of innate and acquired immunity to chronic intracellular parasites
- Immunity, Native
Ellner, J. J.; and Mahmoud, A. A. F., 1979, J. Immunol., v. 123 (2), 949-951
Schistosoma mansoni, killing of schistosomula by normal human monocytes independent of specific antibody, complement, and macrophage activation
- Immunity, Native
Haggerty, R. M.; and John, D. T., 1978, Infect. and Immun., v. 20 (1), 73-77
Naegleria fowleri in mice, infecting dose and age, sex, and strain of host are important variables that markedly affect innate resistance to infection
- Immunity, Native
Huhn, J., 1977, 3. Externe Veterinartagung, Ber. u. Arbeitsergebn. (40), 217-227
trypanosomiasis, cattle, possible mechanisms of tolerance, use of resistant breeds as control measure, economic importance: West Africa
- Immunity, Native
Rifkin, M. R., 1978, Exper. Parasitol., v. 46 (2), 189-206
Trypanosoma brucei, cytotoxic reaction induced by normal human serum, some properties of the trypanocidal factor, complement activation not required
- Immunity, Native
Trueman, K. F.; and Blight, G. W., 1978, Austral. Vet. J., v. 54 (6), 301-305
Babesia bovis, susceptible cattle of different ages, innate immunity, aged cattle highly susceptible compared to other groups aged up to 2 years, animals of all ages had solid resistance to subsequent heterologous challenge
- Immunity, Native
Van Meirvenne, N.; Magnus, E.; and Janssens, P. G., 1976, Ann. Soc. Belge Med. Trop., v. 56 (1), 55-63
Trypanosoma brucei rhodesiense, serum-incubation-infectivity-tests on clone populations of distinct antigenic types

Immunity, Passive

Abdalla, H. S.; Hussein, H. S.; and Kreier, J. P., 1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 295-306

Babesia rodhaini, intact and splenectomized mice, immune serum (IS) delayed onset of parasitemia but neither prevented development of infection nor protected mice from death even with further supplementation of IS, effect of IS greater when parasitized cells incubated in IS were administered with additional IS

Immunity, Passive

Anderson, M. J. D.; and Griffin, J. F. T., 1979, *Internat. J. Parasitol.*, v. 9 (3), 235-239

Taenia crassiceps, neonatal rats, adoptive transfer of immunity and immunocompetence with lymph node cells

Immunity, Passive

Andreassen, J.; Hindsbo, O.; and Ruitenberg, E. J., 1978, *Immunology*, v. 34 (1), 105-113
Hymenolepis diminuta in congenitally athymic (nude) mice vs. their thymus-bearing littermates, worm kinetics and intestinal histopathology, passive immunization showed no conclusive role of serum antibodies in host protection, host protection was dependent on number of worms and worms could be expelled in absence of functional T-cells

Immunity, Passive

Araj, G. F.; Matossian, R. M.; and Malakian, A. H., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 31-38

Echinococcus granulosus, mice with secondary hydatidosis, cell-mediated immune response in relation to humoral immune response and cyst development, passive protection with spleen cells

Immunity, Passive

Aryeetey, M. E.; and Piekarski, G., 1978, *Ztschr. Parasitenk.*, v. 56 (3), 211-218
Sarcocystis antibodies in young humans and rats, gradually decreased after birth, probably passed to newborn through placenta

Immunity, Passive

Baalawy, S. S., 1975, *Bull. Animal Health and Prod. Africa*, v. 23 (1), 99-102
Fasciola gigantica, rabbits, passive immunization with homologous immune serum and sensitized lymphocytes from previously infected rabbits and heterologous immune serum from previously infected goats, results indicate both humoral and cell-mediated factors take part in immune mechanism

Immunity, Passive

Behnke, J. M.; and Parish, H. A., 1979, *Parasite Immunol.*, v. 1 (1), 13-26
Nematospiroides dubius, expulsion from intestine of mice treated with immune serum

Immunity, Passive

Bray, R. S.; and Anderson, M. J., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 427-431
Plasmodium falciparum, prevalence and density in pregnant women (by age/parity), recently pregnant women, and infants, malarial antibody levels in cord blood, seasonal variations: The Gambia

Immunity, Passive

Brossard, M.; and Girardin, P., 1979, *Experientia*, v. 35 (10), 1395-1397
Ixodes ricinus, rabbits, passive transfer of resistance with immune serum, effect on feeding and egg laying, IgG and homocytotropic specific antibodies of donors and recipients, immediate skin sensitivity of recipients

Immunity, Passive

Bruijning, C. F. A.; and de Vries, H., 1978, *Acta Leidensia*, v. 46, 31-51
Schistosoma mansoni, transmission of IgG, IgM, and IgA antibodies from mother to fetal and newborn mice

Immunity, Passive

Burgess, D. E.; and Hanson, W. L., 1979, *Infect. and Immun.*, v. 25 (3), 838-843
Trypanosoma cruzi, mice, adoptive transfer of protection with lymphocytes and macrophages

Immunity, Passive

Byram, J. E.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 274-285
Schistosoma mansoni, T-cell deprived mice vs. normal mice, histopathology, prevention of liver cell damage surrounding egg foci by passive transfer of serum from chronically infected but not from uninfected mice

Immunity, Passive

Bywater, J. E. C.; and Kellett, B. S., 1979, *Lab. Animals*, v. 13 (4), 293-297
Encephalitozoon cuniculi, 4 generations of a family of rabbits tested at different ages, antibody titres, distribution of histopathological lesions

Immunity, Passive

Chensue, S. W.; and Boros, D. L., 1979, *J. Immunol.*, v. 123 (3), 1409-1414
Schistosoma mansoni, characterization of T lymphocytes involved in adoptive suppression of granuloma formation in infected mice

Immunity, Passive

Colley, D. G., 1976, *J. Exper. Med.*, v. 143 (3), 696-700
Schistosoma mansoni, passive transfers of lymphoid cells from chronically infected mice to syngeneic mice in early stages of infection suppressed granuloma formation, passive transfers of serum had no such effect

Immunity, Passive

Colley, D. G.; Lewis, F. A.; and Todd, C. W., 1979, *Cellular Immunol.*, v. 46 (1), 192-200
Schistosoma mansoni, mice, adoptive suppression of granuloma formation by T lymphocytes and by lymphoid cells sensitive to cyclophosphamide

Immunity, Passive

Dhar, S.; and Gautam, O. P., 1978, *Indian Vet. J.*, v. 55 (9), 738-740
Theileria annulata, calves (exper.), hyperimmune serum inoculated, no therapeutic value, did not affect course of disease

Immunity, Passive

Dobson, C.; and Owen, M. E., 1978, *Internat. J. Parasitol.*, v. 8 (5), 359-364
Nematospiroides dubius in different mouse strains, sex resistance, passive transfer experiments

Immunity, Passive

- Doenhoff, M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 260-273
 Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-S. mansoni egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Immunity, Passive

- Gerbase-DeLima, M.; Carlquist, I.; and Mendes, N. F., 1979, Cellular Immunol., v. 48 (1), 231-234
 specificity of local transfer of cell-mediated immunity to several antigens (including leishmanin) with dialyzable transfer factor

Immunity, Passive

- Golenser, J.; et al., 1978, Israel J. Med. Sc., v. 14 (5), 606-610
 Plasmodium berghei, immunization of chloroquinized rats against sporozoites by bites of infected mosquitoes: influence of number of exposures to infected mosquitoes on antibody titers and protection; influence of exposure to different numbers of infective mosquitoes on antibody production and protection; specificity of antiplasmodial antibodies; influence of passive transfer of sera from rats immune to sporozoites or to erythrocytic forms on development of sporozoites, symposium presentation

Immunity, Passive

- Goodrich, B. S.; and Murray, M. D., 1978, Internat. J. Parasitol., v. 8 (4), 313-320
 Ixodes holocyclus, association of toxin with salivary glands, increasing toxin content of salivary glands with length of time of feeding on mice, effect on toxin content of salivary glands of interruption to feeding, effect of passive immunization of mice on resistance of host to toxin and on toxin production, effect on toxin production of feeding on non-immune and immune bandicoots

Immunity, Passive

- Greenblatt, C. L.; and Jacobson, R. L., 1978, Israel J. Med. Sc., v. 14 (5), 596-598
 malaria, speculation on use of adoptive immunity in vaccination, some experiments with Plasmodium berghei in hamsters, symposium presentation

Immunity, Passive

- Hafizi, A.; and Mobabber, F. Z., 1978, Clin. and Exper. Immunol., v. 33 (3), 389-394
 Toxoplasma gondii, mice, reversal of effect of cyclophosphamide by passive immunization, data indicate that antibody plays important role in establishing infection-immunity (premunition) in this system

Immunity, Passive

- Heath, D. D.; et al., 1979, Parasitology, v. 79 (2), 177-182
 Taenia ovis, duration of passive protection in lambs from immunized ewes

Immunity, Passive

- Heath, D. D.; et al., 1979, Vet. Parasitol., v. 5 (1), 51-55
 Taenia ovis, immunizing potential of various developmental stages injected subcutaneously into neonatal or 16-week-old lambs, colostrum-derived antibodies apparently suppressed immunizing potential of eggs in neonatal lambs

Immunity, Passive

- Jacobson, R. L.; Zuckerman, A.; and Greenblatt, C. L., 1978, Clin. and Exper. Immunol., v. 33 (1), 25-29
 Plasmodium berghei, neonate rats from normal or immune mothers receiving spleen cells from normal or immune mothers and fostered to normal or immune mothers in various combinations, results suggest that immune response was suppressed in presence of passively transferred maternal antibody

Immunity, Passive

- Jayawardena, A. N.; et al., 1978, Immunology, v. 34 (1), 157-165
 Plasmodium berghei yoelii (P. yoelii), mice, passive transfer of immunity with serum and cells

Immunity, Passive

- Kilejian, A., 1978, Science (4359), v. 201, 922-924
 Plasmodium lophurae, ducklings, successful immunization with purified and characterized histidine-rich protein as antigen, use of adjuvant is not required for this protective effect and immunity can be passively transferred with serum

Immunity, Passive

- Klesius, P. H.; et al., 1975, Transplant. Proc., v. 7 (3), 449-452
 Eimeria bovis, calves, delayed hypersensitivity (DH) response, passive transfer to other calves via lymphocytes and via cell-free transfer factor (TF), acquired immunity found in some calves receiving TF; DH skin reactivity for coccidian oocyst antigen and diphtheria toxoid was also passively transferred to rabbits, dogs, and rhesus monkeys with calf TF

Immunity, Passive

- Klesius, P. H.; et al., 1978, Clin. Immunol. and Immunopathol., v. 10 (2), 214-221
 Eimeria ferrisi, cell-mediated immunity stimulated in mice by prophylactic treatment with bovine transfer factor (TFd) prepared from lymph node lymphocytes of cattle immune to E. bovis, lymphocyte stimulation and protection against clinical infection, susceptible mice given lymphocytes from donor mice treated with bovine TFd were also partly protected against clinical infection

Immunity, Passive

- Klesius, P. H.; et al., 1979, Clin. Immunol. and Immunopathol., v. 12 (2), 143-149
 Eimeria ferrisi, C57BL/6 mice, effects of immunization and treatment with transfer factor, results suggest this host strain has genetically determined defect in cell-mediated immune response to this infection

Immunity, Passive

- Kolhe, N. P.; Lakshmi, P. N.; and Johri, G. N., 1979, Experientia, v. 35 (9), 1242-1243
 Ancylostoma caninum, mice, passive transfer of acquired immunity through sensitized thymus and bone marrow cells

Immunity, Passive

- Kozakiewicz, B., 1977, *Med. Wet.*, v. 33 (10), 622-623
Cysticercus bovis, calves, sheep, goats, passive immunization

Immunity, Passive

- Kwa, B. H.; and Liew, F. Y., 1978, *J. Helminth.*, v. 52 (2), 99-107
Taenia taeniaeformis, rats, haemagglutinating antibody production, passive transfer of immunity using sera from different time intervals after infection, passive transfer using dilutions of hyperimmune serum, time course of protection conferred by passive serum transfer before and after challenge

Immunity, Passive

- Lemos, B. C., 1975, *Rev. Brasil. Med.*, v. 32 (7), 503-505
 Chagas disease, human, clinical evaluation of equine specific beta gammaglobulin as therapy

Immunity, Passive

- Lloyd, S.; and Soulsby, E. J. L., 1978, *Immunology*, v. 34 (5), 939-945
Taenia taeniaeformis, mice, passive transfer of protection with intestinal, colostral, or serum immunoglobulins, protective capacity found to be associated mainly with IgA of colostrum and intestinal secretions and IgG of serum

Immunity, Passive

- McDonald, V.; and Phillips, R. S., 1978, *Immunology*, v. 34 (5), 821-830
Plasmodium chabaudi, thymectomized mice more susceptible to infection than controls; adoptive transfer of immunity with enriched populations of spleen T and B lymphocytes

Immunity, Passive

- Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 237-248
Schistosoma mansoni, rhesus monkeys, immunization, requirement for activation of both cell-mediated and humoral mechanisms

Immunity, Passive

- Maddison, S. E.; and Kagan, I. G., 1979, *J. Parasitol.*, v. 65 (4), 515-519
Schistosoma mansoni, mice, passive transfer of immune serum or of a combination of sensitized cells and immune serum intravenously or intraperitoneally, results of percutaneous and subcutaneous exposure to cercarial challenge

Immunity, Passive

- Mahoney, D. F.; et al., 1979, *Internat. J. Parasitol.*, v. 9 (4), 297-306
Babesia bovis, immune response in *Bos taurus* studied using passive transfer of serum from immune animals, results suggest effector mechanism is mediated by strain-specific antibody

Immunity, Passive

- Masihi, K. N.; and Werner, H., 1978, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 240 (1), 135-142
Toxoplasma gondii, mice, effect of passively transferred heterologous serum on number of brain cysts present and survival rate after lethal challenge, serum given before challenge reduces numbers of brain cysts and increases survival rate, serum given after challenge gives higher survival rate but enhances infection as judged by increased numbers of brain cysts

Immunity, Passive

- Mayer, H. F.; Marder, G.; and Peretti, H. A., 1979, *Rev. Med. Vet.*, Buenos Aires, v. 60 (1), 12-14

Toxoplasma gondii, albino rats, transplacental infection only in offspring of female rats infected during pregnancy, no infection in offspring of female rats infected before pregnancy, offspring protected by mother's infection prior to pregnancy

Immunity, Passive

- Mendes, E., 1979, *Cellular Immunol.*, v. 42 (2), 424-427
 transfer of delayed hypersensitivity to leishmanin (Montenegro reaction), remains to be established whether this alters clinical course of visceral leishmaniasis

Immunity, Passive

- Miller, H. R. P.; and Nawa, Y., 1979, *Exper. Parasitol.*, v. 47 (1), 81-90
Nippostrongylus brasiliensis, rats, parasite elimination is associated with increase in proportion of intestinal goblet cells, this effect can be adoptively transferred by immune thoracic duct lymphocytes

Immunity, Passive

- Miller, H. R. P.; Nawa, Y.; and Parish, C. R., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (3), 281-285
Nippostrongylus brasiliensis-infected rats adoptively immunized with different subpopulations of immune thoracic duct lymphocytes, intestinal goblet cell response, cells lacking surface immunoglobulin were most potent stimulators of goblet cell differentiation

Immunity, Passive

- Mitchell, G. F.; Handman, E.; and Howard, R. J., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (5), 553-559
Plasmodium berghei, *Babesia rodhaini*, mice, attempts to raise host-protective sera using variety of immunization manipulations (BCG injection, *P. yoelii* infection, others)

Immunity, Passive

- Moloney, A.; and Denham, D. A., 1979, *Parasite Immunol.*, v. 1 (1), 3-12
Trichinella spiralis, effects of immune serum and cells on newborn larvae, in vitro and in vivo (mice) studies

Immunity, Passive

- Munday, B. L., 1979, *Vet. Parasitol.*, v. 5 (2-3), 129-135
Sarcocystis ovicanis, deleterious effect on growth rate and haematocrit in lambs, presence of antibodies (presumably colostral) against *Sarcocystis* did not appear to provide significant protection

Immunity, Passive

- Musoke, A. J.; Williams, J. F.; and Leid, R. W., 1978, *Immunology*, v. 34 (3), 565-570
Taenia taeniaeformis, systemic sensitization with reaginic antibodies accelerates rate at which challenge organisms are killed in passively immunized rats, inflammatory mediators which are released during immediate hypersensitivity responses may have direct effects on viability of early larval stages of parasite, these results indicate that reaginic antibody may play role in protective mechanism of immunity against *Taenia taeniaeformis* in the rat

Immunity, Passive

Nawa, Y.; and Miller, H. R. P., 1978, Cellular Immunol., v. 37 (1), 51-60

Nippostrongylus brasiliensis, rats, protective capacities of different sources of immune lymphocytes, thoracic duct lymphocytes drained from donors on day 10 conferred greater protection than either mesenteric lymph node cells or thoracic duct lymphocytes drained from hyperimmune donors, results suggest that different susceptibilities of 'normal' and 'damaged' worms to adoptive protection is quantitative rather than qualitative phenomenon and also emphasize that kinetic and dose-response experiments are important in evaluating protective capacities of transferred cells

Immunity, Passive

Nawa, Y.; and Miller, H. R. P., 1979, Cellular Immunol., v. 42 (2), 225-239

Nippostrongylus brasiliensis, rats, intestinal mast cell (IMC) response can be transferred by adoptive immunization, IMC may be derived from subpopulation in transferred immune thoracic duct lymphocytes, close relationship between worm expulsion and increased numbers of IMC

Immunity, Passive

Nawa, Y.; Parish, C. R.; and Miller, H. R. P., 1978, Cellular Immunol., v. 37 (1), 41-50

Nippostrongylus brasiliensis, immune thoracic duct lymphocytes fractionated into cells lacking or bearing surface immunoglobulin, protective capacities of each subpopulation examined

Immunity, Passive

Palmer, T. T., 1978, J. Parasitol., v. 64 (3), 493-496

Plasmodium berghei, rats, effect of primary patent infection during pregnancy upon course of infection and humoral antibody response in offspring, passive transfer of protective antibody through milk, in utero sensitization by soluble malaria antigens may also exert protective effect

Immunity, Passive

Phillips, R. S.; Brown, K. N.; and Hills, L. A., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 92-94

Plasmodium berghei, reduced protective activity of immune spleen cells from completely cured rats if cells are transferred to rats which have been infected for 5-8 days before cell transfer

Immunity, Passive

Phillips, S. M.; et al., 1978, Cellular Immunol., v. 38 (2), 239-254

Schistosoma mansoni, rats, prerequisite mechanisms whereby natural infection or artificial immunization leads to development of optimal protective immunity, in vivo and in vitro criteria of cellular and humoral immune reactivity evaluated

Immunity, Passive

Playfair, J. H. L.; and De Souza, J. B., 1979, Parasite Immunol., v. 1 (3), 197-208

Plasmodium yoelii- or *P. berghei*-vaccinated mice, immunofluorescent antibody response with particular reference to antibody class and subclass, correlation with protection, passive transfer experiments, effect of macrophage stimulation and inhibition on antibody and on protection

Immunity, Passive

Quinn, T. C.; and Wyler, D. J., 1979, J. Immunol., v. 123 (5), 2245-2249

Plasmodium berghei, rats, mechanisms of action of hyperimmune serum in mediating protective immunity

Immunity, Passive

Rajasekariah, G. R.; and Howell, M. J., 1979, J. Parasitol., v. 65 (4), 481-487

Fasciola hepatica, rats, transfer of immunity by serum and cells from infected to naive animals, hematological and precipitating antibody responses of recipients

Immunity, Passive

Ross, J. G.; and Halliday, W. G., 1979, Internat. J. Parasitol., v. 9 (4), 281-284

Ostertagia circumcincta, *Trichostrongylus colubriformis*, sheep, immunity successfully transferred by 'Transfer Factor', donor and recipient of different breeds

Immunity, Passive

Ross, J. G.; and Halliday, W. G., 1979, Research Vet. Sc., v. 26 (1), 41-46

Trichostrongylus axei, 'transfer factor' activity in transfer of immunity to susceptible lambs

Immunity, Passive

Santoro, F.; Liebart, M. C.; and Capron, A., 1978, Protides Biol. Fluids, v. 26, 215-218

Schistosoma mansoni, human, circulating antigens, antibodies, and immune complexes in milk from infected mothers

Immunity, Passive

dos Santos, R. R., 1973, Rev. Patol. Trop., v. 2 (4), 433-463

Trypanosoma cruzi, lymphocytes of mice inoculated with avirulent PF strain conferred immunity in mice (treated with immunosuppressive drugs or untreated) against infections with the virulent Y strain; newborn mice treated with immunosuppressive drugs showed no protection against the virulent strain

Immunity, Passive

Sharma, M.; et al., 1979, Immune Reg. Transfer Factor, 563-569

human cutaneous *Leishmania* infection, transfer factor therapy, double blind clinical trial: Iran

Immunity, Passive

Sharma, M. K.; Anaraki, F.; and Ala, F., 1979, Clin. Immunol. and Immunopathol., v. 12 (2), 183-190

Leishmania, human, persistent cutaneous infection, therapy with *Leishmania*-specific transfer factor

Immunity, Passive

Staroniewicz, Z., 1971, Acta Parasitol. Polon., v. 19 (19-28), 307-318

Trichinella spiralis, mice, failure to induce protective immunity by cell transfer from immunized donors, results indicate attenuation of immunity after transfer

Immunity, Passive

Stevens, D. P.; and Frank, D. M., 1978, Tr. Ass. Am. Physicians, v. 91, 268-272

Giardia muris-infected mice, resistance to infection transferred passively in mother's milk, during lactation in immune females maternal intestinal resistance to *Giardia* is temporarily lost

Immunity, Passive

Stoimenov, K., 1977, Vet.-Med. Nauki, v. 14 (10), 3-8

Heterakis gallinarum, chickens, passive immunization

Immunity, Passive

Tachon, P.; and Borojevic, R., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 605-609

Schistosoma mansoni, prenatal sensitization to schistosomal antigen in children born to infected mothers

Immunity, Passive

Takayanagi, T.; et al., 1978, Exper. Parasitol., v. 44 (1), 82-91

Trypanosoma gambiense, neonatal rats receiving antibodies from female, protective, agglutinating, and phagocytosis-promoting characteristics of sera

Immunity, Passive

Thong, Y. H.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 650-652

Naegleria fowleri, mice immunized with live organisms acquire resistance to challenge, protective immunity can be transferred by immune serum but not by immune cells, mechanism of this immunity unknown

Immunity, Passive

Vardhani, V.; and Johri, G. N., 1978, Experimentia, v. 34 (1), 122-123

Ancylostoma caninum, mice, transfer of immunity with sensitized peritoneal exudate cells from singly and repeatedly infected donors

Immunity, Passive

Verhave, J. P.; et al., 1978, J. Immunol., v. 121 (3), 1031-1033

Plasmodium berghei, transfer of protective immunity with lymphoid cells from mice immune to malaria sporozoites

Immunity, Passive

Wakelin, D.; and Wilson, M. M., 1979, Immunology, v. 37 (1), 103-109

Trichinella spiralis, mice, transfer of immunity with enriched T- and B-cell populations

Immunity, Passive

Werner, H.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (4), 528-532

Toxoplasma gondii, latent infected mice, substantial reduction in brain cysts obtained by administration of hyperimmune serum, pyrimethamine, and SDDS in various combinations; effectiveness of therapy varied with parasite strain

Immunity, Passive

Werner, H.; Masihi, K. N.; and Meingassner, J. G., 1978, Zentralbl. Bakteriologie, 1. Abt. Orig., Reihe A, v. 242 (3), 405-413

Toxoplasma gondii, influence of 'serum immunotherapy' on cysts in latent infected mice

Immunity, Passive

Zemburowa, K.; Przybylski, Z.; and Rocznik, M., 1978, Arch. Immunol. et Therap. Exper., v. 26 (1-6), 653-657

Toxoplasma gondii, rabbits, humoral and cellular immune response in different stages of pregnancy, no evidence that this immune response has any protective effect on foetus

Immunity, Phagocytosis

Boonpuaknavig, S.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (4), 79-83

Plasmodium berghei, mice, treatment with carbon particles in attempt to block macrophages, alterations in immune response, immunopathology, and histology patterns

Immunity, Phagocytosis

Borges, J. S.; and Johnson, W. D., jr., 1975, J. Exper. Med., v. 141 (2), 483-496

Toxoplasma gondii, in vitro model for quantitation of multiplication in monocytes from normal and immune human subjects, findings show that capacity to inhibit growth of toxoplasmas is induced in monocytes by a product released after exposure of T lymphocytes from immune subjects to toxoplasma antigen

Immunity, Phagocytosis

Brooks, C.; and Kreier, J. P., 1978, Infect. and Immun., v. 20 (3), 827-835

Plasmodium berghei, attachment and phagocytosis of parasites by peritoneal macrophages in vitro, merozoites but not trophozoites have antiphagocytic capsule (surface coat), antiphagocytic action of capsule is lost after reaction with immune serum

Immunity, Phagocytosis

Cook, R. M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 554-555 [Letter]

Trypanosoma brucei, different surfaces examined for ability to support phagocytic activity by mouse peritoneal exudate cells, possible significance of phenomenon of surface phagocytosis in disease process

Immunity, Phagocytosis

Cornille-Brögger, R.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 173-183

malaria in normal subjects and those with sickle cell trait, determination of plasma immunoglobulins and antimalarial antibodies, findings suggest that during infancy early phagocytosis of parasitized cells led to enhanced processing of antigen and hence earlier immune response to sickle cell trait

Immunity, Phagocytosis

Delgado, M. A.; and Santos-Buch, C. A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1108-1115

Trypanosoma cruzi, mice, transplacental transmission is dependent upon pathogenicity of parasite strain and phagocytic activity of placenta

Immunity, Phagocytosis

Ferrante, A.; and Jenkin, C. R., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (2), 201-209

Trypanosoma lewisi, rats, importance of monocytic phagocytic system in elimination of parasites during course of infection, relative importance of liver and spleen in removal of parasites, importance of specific antibody in uptake of parasites by liver, production of specific antibody during course of infection, effect of antibody and complement on parasites, fate of trypanosomes within chambers planted into peritoneal cavities of normal and immune rats

Immunity, Phagocytosis

Ferrante, A.; and Jenkin, C. R., 1979, Cellular Immunol., v. 42 (2), 327-335

Trypanosoma lewisi, rat macrophages are able to ingest and then kill parasite in presence of specific antibody

Immunity, Phagocytosis

Ferrante, A.; Jenkin, C. R.; and Reade, P. C., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (1), 47-59

Trypanosoma lewisi-infected rats, changes in activity of reticuloendothelial system

Immunity, Phagocytosis

Garcia-Tamayo, J.; Nunez-Montiel, J. T.; and de Garcia, H. P., 1978, Acta Cytol., v. 22 (6), 447-455

Trichomonas vaginalis in human cervical and vaginal exudates, fine structure and acid phosphatase activity, relationship with other cellular elements including phagocytosis and digestion of epithelial cells and bacteria and phagocytosis by macrophages

Immunity, Phagocytosis

Green, T. J.; and Kreier, J. P., 1978, Infect. and Immun., v. 19 (1), 138-145

Plasmodium berghei in inbred rats, macrophage-cytophilic antibody specific for malarial antigens, identification and characterization, demonstration of role in protection, acts synergistically with opsonizing antibody

Immunity, Phagocytosis

Gruber, H. E.; and Osborne, J. W., 1979, Lab. Animals, v. 13 (3), 199-202

Spiroplasma muris, X-irradiated rats, ultrastructural changes in intestinal epithelium, no evidence of phagocytosis by Paneth cells

Immunity, Phagocytosis

Handman, E.; and Burgess, A. W., 1979, J. Immunol., v. 122 (3), 1134-1137

Leishmania tropica, uptake and killing by macrophages, stimulation by granulocyte-macrophage colony-stimulating factor

Immunity, Phagocytosis

Holmes, P. H.; et al., 1979, Immunology, v. 36 (3), 415-420

Trypanosoma brucei, method of labelling with [⁷⁵Se]-methionine, suitability for in vivo studies of immunological clearance, liver found to be principal site of phagocytosis in immune mice; method equally applicable to T. congolense

Immunity, Phagocytosis

Hunter, K. W., jr.; Winkelstein, J. A.; and Simpson, T. W., 1979, J. Immunol., v. 123 (6), 2582-2587

Plasmodium berghei, rats, serum opsonic activity, functional and immunochemical characteristics in vitro

Immunity, Phagocytosis

Hussein, H. S., 1979, Exper. Parasitol., v. 47 (1), 1-12

Babesia microti, B. hyalomysci, mice, role of spleen during infection, erythrophagocytosis, determination of phagocytic activity of reticuloendothelial system

Immunity, Phagocytosis

Ito, Y.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (6), 333-339

Trichomonas foetus, mice, protective role of immune lymphoid cells and phagocytes, microscopical observations

Immunity, Phagocytosis

Jones, T. C.; Len, L.; and Hirsch, J. G., 1975, J. Exper. Med., v. 141 (2), 466-482

Toxoplasma gondii, alterations in mice infected with toxoplasmas attenuated in virulence, effects of antibodies to Toxoplasma on survival and growth of these organisms in vitro, multiplication of toxoplasmas within macrophages from normal and immunized mice, requirements for lymphocytes and for Toxoplasma antigen for induction in macrophages of ability to suppress Toxoplasma multiplication and variation in these requirements with time after immunization, further characterization of lymphocyte-antigen effect on macrophages, effects on Toxoplasma multiplication in macrophages of supernates of immune lymphocyte-Toxoplasma antigen interactions

Immunity, Phagocytosis

Joseph, M.; et al., 1978, Clin. and Exper. Immunol., v. 33 (1), 48-56

Schistosoma mansoni, cytotoxicity of human and baboon mononuclear phagocytes against schistosomula in vitro, induction by immune complexes containing IgE and parasite antigens

Immunity, Phagocytosis

Kloetzel, J.; and Deane, M. P., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (6), 383-387

Trypanosoma lewisi, T. cruzi sensitized with specific antisera and complement, adherence to rat peritoneal cells; adherence is specific, without cross reactions; results suggest that phagocytosis as well as cytophilic antibodies plays a role in immunity

Immunity, Phagocytosis

Lelchuk, R.; et al., 1979, Parasite Immunol., v. 1 (1), 61-78

Plasmodium yoelii- and P. berghei-infected mice and vaccinated mice challenged with homologous parasites, changes in phagocytic and adherent cell numbers, development and suppression of population of late-adhering macrophages

Immunity, Phagocytosis

Liston, A. J.; and Baker, J. R., 1978, J. Gen. Microbiol., v. 107 (2), 253-262

Trypanosoma dionisii, phagocytosis by mouse peritoneal macrophages in vitro and subsequent fate therein

Immunity, Phagocytosis

Mackenzie, P. K. I.; et al., 1978, Research Vet. Sc., v. 24 (1), 4-7

Trypanosoma congolense, phagocytosis of erythrocytes and leucocytes in infected sheep is due to coating of blood cells with trypanosomal antigen, phagocytic activity is dependent on parasitemia and is significant in maintaining host anemia

Immunity, Phagocytosis

McLeod, R.; and Remington, J. S., 1979, J. Immunol. Methods, v. 27 (1), 19-29

Toxoplasma gondii, new method to evaluate capacity of monocytes and macrophages to inhibit multiplication of or kill an intracellular pathogen, involves measurement of incorporation of [³H]uracil into parasite nucleic acids, adaptation of method to microsystem

Immunity, Phagocytosis

Makimura, S.; and Suzuki, N., 1977, Research Bull. Obihiro Univ., s. 1, v. 10 (2), 401-406

Plasmodium berghei, mice, phagocytosis of parasitized erythrocytes by mouse peritoneal macrophages, concluded that both humoral and cellular factors were important

Immunity, Phagocytosis

Masur, H.; and Jones, T. C., 1978, J. Exper. Med., v. 147 (1), 157-170

Pneumocystis carinii, preliminary studies on identifying trophozoites and cysts and establishing infection of cell cultures, interaction in vitro with macrophages and L-cells, observations suggest role for antibody and mononuclear phagocytes during immune response

Immunity, Phagocytosis

Mauel, J.; Buchmueller, Y.; and Behin, R., 1978, J. Exper. Med., v. 148 (2), 393-407

Leishmania enriettii, destruction of intracellular organisms in macrophages activated by cocultivation with stimulated macrophages

Immunity, Phagocytosis

Nathan, C.; et al., 1979, J. Exper. Med., v. 149 (5), 1056-1068

Trypanosoma cruzi, activation of macrophages in vivo and in vitro, correlation between hydrogen peroxide release and trypanocidal activity

Immunity, Phagocytosis

Nogueira, N.; and Cohn, Z. A., 1978, J. Exper. Med., v. 148 (1), 288-300

Trypanosoma cruzi, conditions for inducing and maintaining trypanocidal activity in both resident and inflammatory mouse peritoneal macrophages maintained in vitro

Immunity, Phagocytosis

Ono, T.; and Inoki, S., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (2), 47-58

Trypanosoma gambiense-infected mice, interaction between trypanosomes and peritoneal cells after treatment with human serum, anti-trypanosome mouse-serum, and acriflavine, electron microscopy

Immunity, Phagocytosis

Roberts, D. W.; and Weidanz, W. P., 1978, Infect. and Immun., v. 20 (3), 728-731

Plasmodium yoelii in immunologically competent mice and mice with defined immunological deficiencies, results indicate that splenomegaly, enhanced phagocytosis, and anemia are thymus-dependent responses to malaria infection

Immunity, Phagocytosis

Rocha, H.; McCrory, M.; and de Oliveira, M. M. G., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (5), 328-332

S[chistosoma] mansoni-infected and uninfected mice injected with S[almonella] typhimurium, phagocytic function of reticulo-endothelial cells compared

Immunity, Phagocytosis

Rose, M. E.; and Lee, D. L., 1977, Ztschr. Parasitenk., v. 54 (1), 1-7

Eimeria tenella, in vitro uptake of sporozoites by peritoneal exudate cells (macrophages and heterophils) from normal and immunized chickens, electron microscopy, greater uptake by cells from immunized birds but no difference in appearance of sporozoites; entry by phagocytosis

Immunity, Phagocytosis

Sanderson, C. J.; and de Souza, W., 1979, J. Cell Sc., v. 37, 275-286

Trypanosoma cruzi, interaction with rat eosinophils, neutrophils, and macrophages in vitro, light and electron microscopy

Immunity, Phagocytosis

Seitz, H. M.; Weiblen, E. E.; and Claviez, M., 1977, Tropenmed. u. Parasitol., v. 28 (4), 481-490

Plasmodium berghei-infected erythrocytes, phagocytosis by peritoneal macrophages from normal, infected, or immune mice, light and scanning electron microscopy

Immunity, Phagocytosis

Shear, H. L.; Nussenzweig, R. S.; and Bianco, C., 1979, J. Exper. Med., v. 149 (6), 1288-1298

Plasmodium berghei-infected mice, phagocytosis of erythrocytes by spleen macrophages appears to be mediated by Ig on surface; other indications of spleen macrophage activation; phagocytosis is inhibited later in infection by serum factors possibly immune complexes; high levels of anti-Forssman antibodies

Immunity, Phagocytosis

Stevens, D. R.; and Moulton, J. E., 1978, Infect. and Immun., v. 19 (3), 972-982

Trypanosoma brucei, phagocytosis by mouse peritoneal macrophages, ultrastructural and immunological aspects, results indicate that both specific antibody and complement contribute to ingestion of trypanosomes by activated macrophages but that parasite antigenic variation effectively abrogates phagocytic defense mechanism

Immunity, Phagocytosis

Takayanagi, T.; et al., 1978, Exper. Parasitol., v. 44 (1), 82-91

Trypanosoma gambiense, neonatal rats receiving antibodies from female, protective, agglutinating, and phagocytosis-promoting characteristics of sera

Immunity, Phagocytosis

- Thompson, J. M.; et al., 1977, J. Invert. Path., v. 30 (2), 181-184
Ascaris suum, neutrophils are capable of penetrating cuticle of 2nd-stage larvae, integrity of internal tissues is then destroyed by cytoplasmic extensions of neutrophils, ultrastructural study

Immunity, Phagocytosis

- Thorne, K. J. I.; et al., 1979, Parasitology, v. 79 (3), 367-379
Trypanosoma dionisii, phagocytosis and killing by human neutrophils, eosinophils, and monocytes, importance of specific anti-serum in this system

Immunity, Phagocytosis

- Von Behren, L. A.; and Pesanti, E. L., 1978, Am. Rev. Resp. Dis., v. 118 (6), 1051-1059
Pneumocystis carinii, uptake and degradation by macrophages in vitro

Immunity, Precipitation

- Afchain, D.; et al., 1979, J. Parasitol., v. 65 (4), 507-514
Trypanosoma cruzi culture forms, antigenic make-up, comparison with salivarian and some other sterocorian trypanosomes and Leishmania using immunoprecipitation in gels and immunoelectrophoresis, identification of component specific to *T. cruzi*

Immunity, Precipitation

- Akahane, H., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (6), 347-352
Fasciola sp., rabbits, acute and chronic phases of infection, Ouchterlony and complement fixation titers

Immunity, Precipitation

- de Alencar, R. A. (filho), 1978, Arq. Inst. Biol., Sao Paulo, v. 45 (2), 101-115
 echinococcosis, cattle, swine, diagnosis by latex agglutination, immunodiffusion, and Casoni skin test compared

Immunity, Precipitation

- Amato Neto, V.; et al., 1976, Rev. Brasil. Clin. e Terap., v. 5 (11), 413-416
Trypanosoma cruzi, humans, analysis of sensitivity of rapid flocculation for diagnosis, recommended for screening blood donors and for epidemiologic surveys

Immunity, Precipitation

- Ansari, M. Z.; and Singh, (Kr.) S., 1979, Indian Vet. Med. J., v. 3 (2), 73-76
Gaigeria pachyscelis larvae incubated with immune lamb serum, precipitate formed around fourth but not third stage larvae

Immunity, Precipitation

- Antunes, L. J.; et al., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (3), 203-206
Leishmania braziliensis, humans, reverse immunodiffusion technique and passive hemagglutination test compared as serological tests

Immunity, Precipitation

- Araujo, F. G., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 433-439
Trypanosoma cruzi, acute infection in mice, circulating antigens capable of reacting against mouse serum in complement fixation and counterimmunoelectrophoresis tests but not in haemagglutination test

Immunity, Precipitation

- Atakpa, T. O. U.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (2), 123-126
 human amoebiasis, evaluation of the gel diffusion test for diagnostic purposes, definite seasonal variation in number of clinical cases and number of positive tests for amoebic precipitins (increase during wet season): Nigeria

Immunity, Precipitation

- Bansal, S. R.; and Pathak, R. C., 1974, U. P. Vet. J., v. 2 (4), 141-144
Trypanosoma evansi, buffaloes (exper.), course of disease, symptoms, haematological values, gel precipitin tests; serological test necessary follow-up for negative blood smear

Immunity, Precipitation

- Barbosa, W.; et al., 1974, Rev. Patol. Trop., v. 3 (3), 263-268
Trypanosoma cruzi, diagnosis, sera from persons known to be infected, comparison of test results using counterimmunoelectrophoresis, hemagglutination, fluorescent antibody and complement fixation

Immunity, Precipitation

- Bennett, L. J., 1978, J. Parasitol., v. 64 (1), 182-185
 Australian spargana, mice, immunological responses (tissue reactions, precipitating antibodies, anaphylactic reactions) not found to be weak or abnormal

Immunity, Precipitation

- Biagi, F.; and Gonzalez, C., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (6), 349-351
 toxoplasmosis, humans, diagnosis comparing Sabin Feldman dye test and latex flocculation; both tests gave similar results

Immunity, Precipitation

- Bout, D.; Carlier, Y.; and Capron, A., 1979, Biomedicine, v. 31 (7), 214-215
 echinococcosis, immunodiagnosis using monospecific immune serum anti-Ags in microdouble diffusion technique

Immunity, Precipitation

- Bratanov, V.; Stoianova-Zaikova, L.; and Lilkova, N., 1977, Vet. Med. Nauki, v. 14 (1), 24-35
Trichinella spiralis, pigs (exper.), specificity of skin allergy test, tube precipitation reaction, and Ouchterlony double gel diffusion technique in diagnosis

Immunity, Precipitation

- Bulajic, M.; et al., 1977, Srpski Arhiv Tselok. Lekar., v. 105 (7-8), 657-663
Fasciola hepatica, human, immunodiagnosis, comparative study of complement fixation, double diffusion precipitation, and indirect fluorescent antibody tests

Immunity, Precipitation

- Calderon, C., 1977, Rev. Med. Chile, v. 105 (7), 460-463
Echinococcus granulosus, humans, comparison of immunoelectrophoresis, latex agglutination and indirect hemagglutination for diagnostic purposes

- Immunity, Precipitation
Calderon, C.; et al., 1976, Rev. Med. Chile, v. 104 (3), 152-154
human echinococcosis, serological survey using the immunoelectrophoresis test: District of Palena, Chiloe, Chile
- Immunity, Precipitation
Camargo, M. E.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 254-260
Trypanosoma cruzi, human, comparative serologic diagnosis, complement fixation, immunofluorescence, hemagglutination, flocculation tests
- Immunity, Precipitation
Camargo, M. E.; Hoshino-Shimizu, S.; and Umezawa, E. S., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (4), 230-235
Trypanosoma cruzi, I.M.T.-Chagas flocculation test evaluated, compared with complement fixation, hemagglutination and immunofluorescence test results
- Immunity, Precipitation
Chang, S. M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (5), 845-853
Entamoeba histolytica, antigenic analysis of 2 strains (HT-31 and HK-9) by 2-dimensional immunoelectrophoresis, cross-reactions showed large number of shared antigens between strains
- Immunity, Precipitation
Chiu, J. K.; and Su, K. E., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (2), 81-88
Schistosoma japonicum, evaluation of immunodiffusion tests using adult worm extracts as antigens and sera of exper. animals, results differed with animal species and also with individuals of same species
- Immunity, Precipitation
Coltorti, E. A.; and Varela-Diaz, V. M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 226-229
Echinococcus granulosus, humans, double diffusion test for detection of antibodies against arc 5 antigens, comparison with immunoelectrophoresis and latex agglutination
- Immunity, Precipitation
da Costa, S. C. G.; Venancio, I. A. S.; and da Silva, A. M., 1968, Atas Soc. Biol. Rio de Janeiro, v. 11 (6), 199-200
Trypanosoma cruzi, culture media for use in immunoprecipitation tests
- Immunity, Precipitation
da Cunha, A. S.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 387-392
Entamoeba histolytica, infected patients from 3 geographic areas, results of latex agglutination and agar gel diffusion tests in patients with symptoms vs. those without symptoms: Brazil
- Immunity, Precipitation
Day, K. P.; et al., 1979, Parasite Immunol., v. 1 (3), 217-239
Nippostrongylus brasiliensis vs. Nematospiroides dubius, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses
- Immunity, Precipitation
Deans, J. A.; Dennis, E. D.; and Cohen, S., 1978, Parasitology, v. 77 (3), 333-344
Plasmodium knowlesi, antigenic analysis of sequential erythrocytic stages using crossed immuno-electrophoresis
- Immunity, Precipitation
De Carli, G. A.; and Guerrero, J., 1977, Rev. Microbiol., Sao Paulo, v. 8 (4), 107-109
Trichomonas suis, T. foetus, antigenic comparison by immunoelectrophoresis
- Immunity, Precipitation
Desowitz, R. S.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 303-307
human cysticercosis, immunoepidemiologic survey to evaluate usefulness of counter-immunoelectrophoresis as diagnostic tool: endemic focus of Irian Jaya
- Immunity, Precipitation
Desowitz, R. S.; Oothuman, P.; and Denham, D. A., 1978, J. Helminth., v. 52 (2), 127-130
Brugia pahangi, cats infected with normal or irradiated larvae, precipitating antibody response to different life cycle stages detected by counterimmunoelectrophoresis
- Immunity, Precipitation
Dunan, S., 1978, Rec. Med. Vet., v. 154 (3), 251-261
leishmaniasis, human and canine, immunologic diagnosis, changes in antibody levels during course of disease, interpretation of results
- Immunity, Precipitation
Dusanic, D. G., 1978, Internat. J. Parasitol., v. 8 (4), 297-304
Trypanosoma musculi, precipitin responses of infected mice to exoantigens and cellular antigens
- Immunity, Precipitation
Dusanic, D. G., 1979, Internat. J. Parasitol., v. 9 (6), 577-583
Trypanosoma lewisi, rats, Trypanosoma musculi, mice, precipitin responses of immune hosts repeatedly infected, antigenic relationships of these 2 trypanosome species, microimmunodiffusion, crossed immunoelectrophoresis (CIE), and tandem CIE analyses

Immunity, Precipitation

- Dymowska, Z.; Zakrzewska, A.; and Aleksandrowicz, J., 1970, *Acta Parasitol. Polon.*, v. 18 (13-26), 221-230
Trichinella spiralis, evaluation of antigens obtained by different methods of preparation (ring precipitation test, immunoelectrophoresis, latex test)

Immunity, Precipitation

- El-Sawy, M.; et al., 1979, NATO Advanced Study Inst. Ser., s. A, Life Sc., v. 24, 277-279
 schistosomiasis in patients with and without neurological symptoms, circumoval precipitin test, indirect haemagglutination test, and immunoglobulins in serum and cerebrospinal fluid

Immunity, Precipitation

- Felner, P., 1977, *Tropenmed. u. Parasitol.*, v. 28 (4), 491-493
 amebic abscess, human, serodiagnosis, comparison of results using Stick-ELISA (enzyme-linked immunosorbent assay) and those obtained by complement fixation, indirect hemagglutination, counterelectrophoresis, and latex agglutination

Immunity, Precipitation

- Fruit, J.; et al., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (4-5), 257-266
Trypanosoma gambiense, humans, *T. brucei*, rats, immune complexes, characterization by radioimmunoprecipitation

Immunity, Precipitation

- Fujisaki, K., 1978, National Inst. Animal Health Quart., v. 18 (1), 27-38
Haemaphysalis longicornis, rabbits subjected to series of infestations with adult female ticks, development of acquired resistance and precipitating antibody (7S class of immunoglobulin)

Immunity, Precipitation

- Geerts, S.; Kumar, V.; and Aerts, N., 1979, *J. Helminth.*, v. 53 (4), 293-299
Taenia saginata, antigenic components and their relevance to diagnosis of bovine cysticercosis by immunoelectrophoresis

Immunity, Precipitation

- Glickman, L.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 492-498
Toxocara canis, human visceral larva migrans, serodiagnosis, enzyme-linked immunosorbent assay appears to be method of choice as compared to indirect hemagglutination, bentonite flocculation, and double diffusion in agar

Immunity, Precipitation

- Gomez Priego, A.; et al., 1977, *SPM Salud Pub. Mexico*, v. 19 (5), 735-741
Cysticercus cellulosae, serological diagnosis using soluble antigen dried by lyophilization on paper discs

Immunity, Precipitation

- Gomez Priego, A.; Moron Guzman, A.; and Beltran Hernandez, F., 1977, *SPM Salud Pub. Mexico*, v. 19 (3), 421-430
Cysticercus cellulosae, crude antigen, division into antigenic fractions of carbohydrates, proteins and RNA, adequate specificity for immunodiffusion tests

Immunity, Precipitation

- Guisantes, J. A.; et al., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (2), 69-74
Echinococcus granulosus, humans, standardization of immunoelectrophoresis test using whole or purified hydatid cyst fluid antigens allowed comparative evaluation of sensitivity and specificity of both antigens

Immunity, Precipitation

- Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (1-8), 9-47
Fasciola hepatica, structure of 41 antigens, serologic activity in rabbits using 5 tests

Immunity, Precipitation

- Gundlach, J. L., 1971, *Acta Parasitol. Polon.*, v. 19 (19-28), 285-306
Fasciola hepatica, rabbits, serological response, dynamics in relation to intensity and duration of infection and to superinfection (complement fixation, passive hemagglutination, gel precipitation, and immunoelectrophoresis with various antigens)

Immunity, Precipitation

- Hayunga, E. G.; et al., 1979, *J. Parasitol.*, v. 65 (4), 497-506
Schistosoma mansoni, antigenicity of radio-labeled surface proteins from adult worms, immunoprecipitation with infected serum, cross-reaction with anti-*Schistosoma haematobium* and anti-*Schistosoma japonicum* serum

Immunity, Precipitation

- Herberts, C., 1978, *Compt. Rend. Acad. Sc., Paris*, v. 286, s. D, *Sc. Nat.* (9), 725-728
Sacculina carcini-parasitised *Carcinus mediterraneus*, immunochemical analysis of hemolymph confirms presence of protein fraction not observed in healthy crabs, some infested crabs develop anti-*Sacculina* precipitin reaction

Immunity, Precipitation

- Hillyer, G. V.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (4), 661-669
Schistosoma mansoni, sera from infected persons, immunodiagnosis, comparison of enzyme-linked immunosorbent assay, radioimmunoassay and precipitation tests performed with antigens from eggs

Immunity, Precipitation

- Hillyer, G. V.; and Cervoni, M., 1978, *J. Immunol. Methods*, v. 20, 385-390
Fasciola hepatica, *Schistosoma mansoni*, purification of specific antigens by means of a combination of Laurell crossed immunoelectrophoresis for immunization using complexed antigen and affinity chromatography with monospecific antibody

Immunity, Precipitation

- Howell, M. J.; and Sandeman, R. M., 1979, *Internat. J. Parasitol.*, v. 9 (1), 41-45
Fasciola hepatica, precipitate which forms when metacercariae are cultured in immune rat serum is a complex of parasite metabolic antigen and rat Ig (possibly IgG), vaccination of rats with precipitate in FCA confers significant degree of protection

Immunity, Precipitation

Hrzenjak, T.; et al., 1977, Vet. Arhiv, Zagreb, v. 47 (6), 317-322

Echinococcus granulosus, polyhexosamine ceramide complex antigen isolated from hydatid fluid: use in quantitative complement fixation test with *Echinococcus*-positive human sera; mice sensitized with this antigen, precipitating antibodies

Immunity, Precipitation

Hrzenjak, T.; et al., 1978, Vet. Glasnik, v. 32 (1), 49-51

Echinococcus, human, counter-immunoelectrophoresis as suitable diagnostic method

Immunity, Precipitation

Hwu, H. R.; Banzon, T. C.; and Cross, J. H., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 276-280

Schistosoma japonicum, humans, diagnosis, counterimmunoelectrophoresis compared with circumoval precipitin test: Philippines

Immunity, Precipitation

Kaliraj, P.; et al., 1978, Indian J. Exper. Biol., v. 16 (9), 994-995

Wuchereria bancrofti, rabbits, immunization with whole and soluble microfilarial (mf) antigens, analysis of rabbit anti-mf sera by agar gel diffusion, possible use of rabbit anti-mf sera in detection of circulating filarial antigen in human filarial cases

Immunity, Precipitation

Kaliraj, P.; Ghirnikar, S. N.; and Harinath, B. C., 1979, Indian J. Exper. Biol., v. 17 (10), 1148-1149

Wuchereria bancrofti, human, circulating filarial antigen, detection, concentration, and identification, countercurrent immunoelectrophoresis, Ouchterlony double diffusion

Immunity, Precipitation

Kamiya, M.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (2), 67-74

Litomosoides carinii, cotton rats, Ouchterlony and immunoelectrophoresis (IEP) tests with homologous and heterologous (*Dirofilaria immitis*, *Angiostrongylus cantonensis*) antigens at 11 weeks after infection; sequential changes from 1-10 weeks after infection in hemagglutination titers and IEP with homologous antigen and in numbers of microfilariae

Immunity, Precipitation

Kaushik, R. K.; and Sen, A. B., 1978, Indian J. Animal Sc., v. 48 (3), 202-207

Ascaridia galli, development of precipitins in hyperimmunized rabbits, precipitation and intradermal tests in infected chicks gave negative results

Immunity, Precipitation

Khan, A.; and Mujib, B., 1979, JPMA, v. 29 (12), 268-270

Entamoeba histolytica, humans, serological diagnosis by gel diffusion

Immunity, Precipitation

Knell, J. D.; and Zam, S. G., 1978, J. Invert. Path., v. 31 (3), 280-288

Nosema spp., double immunodiffusion techniques used to investigate taxonomic relationships between 6 different microsporidian isolates

Immunity, Precipitation

Kondo, K.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 265-270

D[iphyllobothrium] latum, human, serum immunoglobulin levels, precipitation tests (Ouchterlony, immunoelectrophoresis)

Immunity, Precipitation

Kramarova, K., 1979, Ceskoslov. Epidemiol., Mikrobiol., Immunol., v. 28 (6), 366-367

toxoplasmosis, human, serological diagnosis, comparison of complement fixation reaction and microprecipitation reaction in agar gel

Immunity, Precipitation

Laarman, J. J.; van den Eijk, A. A.; and Tavenier, P., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 571-577

Entamoeba histolytica, human, diagnosis, gel diffusion vs. immunofluorescence

Immunity, Precipitation

Lalic, R.; Cuperlovic, K.; and Movsesijan, M., 1976, Acta Vet., Beograd, v. 26 (2), 69-75

Fasciola hepatica, rabbits immunized with secretory/excretory antigen, antibodies detected with complement fixation, precipitation, and fluorescent antibody tests, immunologically identical antibodies found after infection

Immunity, Precipitation

Le Ray, D., 1975, Ann. Soc. Belge Med. Trop., v. 55 (3), 129-311

Trypanosoma brucei, antigenic structures expressed in course of parasite life cycle, immunoelectrophoretic analysis and comparative study with various taxa within the family and phylum, extensive review

Immunity, Precipitation

Le Ray, D.; et al., 1973, Ann. Soc. Belge Med. Trop., v. 53 (1), 31-41

Leishmania donovani, immunoelectrophoretic diagnosis using a water-soluble extract of culture forms of parasite

Immunity, Precipitation

Lilkova, N., 1977, Vet. Med. Nauki, v. 14 (2), 57-62

Trichinella spiralis, swine (exper.), Ouchterlony double diffusion test, evaluation, diagnosis

Immunity, Precipitation

Lima Samayoa, O.; Maselli, R.; and Aguilar, F. J., 1973, Rev. Colegio Med. Guatemala, v. 24 (2), 120-128

Entamoeba histolytica, humans, diagnosis, comparison of results using passive latex agglutination and agar gel precipitation

Immunity, Precipitation

Long, G. W.; and Dusanic, D. G., 1978, Exper. Parasitol., v. 44 (1), 56-65

Trypanosoma lewisi, serological reactivities of exoantigens and cellular antigens of bloodstream parasites from immunosuppressed rats (precipitation and agglutination tests), results suggest that likely result of immunosuppressing host is trypanosome antigen preparation that is more reactive serodiagnostic reagent

Immunity, Precipitation

Lopez-Lemes, M. H.; et al., 1975, Rev. Asoc. Argent. Microbiol., v. 7 (2), 39-43
human echinococcosis, comparison of diagnostic results obtained using immunoelectrophoresis and Casoni intradermal tests in patients where presence of cysts was later confirmed at surgery; immunoelectrophoresis test gave the better results but neither test was recommended for use

Immunity, Precipitation

Luzzio, A. J.; McRoberts, M. J.; and Euliss, N. H., 1979, J. Infect. Dis., v. 140 (3), 370-377
Leishmania spp., immunized rabbits, infected hamsters (exper.), and humans, quantitative estimation of antibody titers by enzyme-linked immunosorbent assay, some comparisons with passive hemagglutination, complement fixation, and countercurrent immunoelectrophoresis

Immunity, Precipitation

McArthur, C. P., 1978, J. Fish Dis., v. 1 (4), 377-387
Telogaster opisthorchis, precipitating antibody in Anguilla australis schmidtii serum and A. dieffenbachii gut mucus, agar-gel diffusion, passive haemagglutination, estimated molecular weight and 2-mercaptoethanol sensitivity of antibodies

Immunity, Precipitation

McGregor, I. A.; and Williams, K., 1978, Israel J. Med. Sc., v. 14 (6), 697-706
malaria, value of gel-precipitation test in monitoring endemicity in a rural African village, parasite and precipitin prevalence rates by age, climatic variation and extensive drug usage as factors implicated in changes in prevalence: The Gambia

Immunity, Precipitation

Magat, W. J.; and Jeska, E. L., 1976, Acta Parasitol. Polon., v. 24 (11-19), 191-198
Trichinella spiralis, partially purified antigenic fraction from muscle larvae which detects hemagglutinin and precipitin antibodies in infection sera of rats, rabbits, and swine up to one year after single infection

Immunity, Precipitation

Mahajan, R. C.; et al., 1976, Indian J. Path. and Microbiol., v. 19 (2), 123-126
amoebiasis, human, diagnosis, evaluation of Serameba, counter-immunoelectrophoresis, and bentonite flocculation tests

Immunity, Precipitation

Mannweiler, E.; and Lederer, I., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (3), 403-408
E[ntamoeba] histolytica, humans, diagnostic value of counter-immunoelectrophoresis in comparison to complement fixation, indirect haemagglutination, and latex agglutination tests

Immunity, Precipitation

Mansueto, S.; et al., 1978, Boll. Ist. Sieroterap. Milanese, v. 57 (5), 623-630
visceral leishmaniasis, diagnosis, counter current immunoelectrophoresis rapid and less sophisticated, value limited by false positivity and false negativity

Immunity, Precipitation

Mansueto, S.; et al., 1979, Boll. Ist. Sieroterap. Milanese, v. 58 (3), 260-265
hydatidosis, human, diagnosis, counterimmunoelectrophoresis on cellulose acetate membrane with lyophilized commercially produced antigen

Immunity, Precipitation

Martuscelli-Q., A.; Hernandez Gonzalez, A.; and Zuniga Telleria, V., 1977, Rev. Invest. Salud Pub., Mexico, v. 37 (2), 93-99
Entamoeba histolytica, children with acute intestinal amebiasis, counterimmunoelectrophoresis reaction over course of infection, limitations of this test show that diagnosis must still depend on demonstration of trophozoites in stool

Immunity, Precipitation

Matsuda, H.; et al., 1977, Japan. J. Exper. Med., v. 47 (5), 369-375
Schistosoma japonicum, humans, diagnosis, improved procedures for circumoval precipitin test and for preparing egg antigen, comparative study on test reading techniques, highly sensitive for mass examination in endemic areas: Leyte

Immunity, Precipitation

de la Maza, D.; et al., 1977, Rev. Med. Chile, v. 105 (7), 464-466
human echinococcosis, evaluation of electro-syneresis for diagnostic use, test proved highly sensitive and specific

Immunity, Precipitation

Mello, R. T.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 553-554 [Letter]
Schistosoma mansoni, human, circumoval precipitin test in prepatent and acute phases of infection, not useful for early diagnosis

Immunity, Precipitation

Meyers, J. D.; et al., 1979, Am. Rev. Resp. Dis., v. 120 (6), 1283-1287
Pneumocystis carinii, marrow-transplant patients, diagnosis, counterimmunoelectrophoresis, indirect immunofluorescence

Immunity, Precipitation

Mohapatra, T. M.; et al., 1978, Indian J. Med. Research, v. 67, 754-758
E[ntamoeba] histolytica, human, evaluation of agar-gel diffusion test for sero-diagnosis of invasive amoebiasis, comparison with results using indirect hemagglutination test, agar-gel test recommended for routine use when more sophisticated methods are not readily available

Immunity, Precipitation

Mohapatra, T. M.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (1), 53-58
Entamoeba histolytica, humans with symptomatic and asymptomatic amoebiasis, comparative evaluation of parasitological and serological diagnostic techniques

Immunity, Precipitation

Mwaiko, G. L.; and Mkufya, A., 1977, East African Med. J., v. 54 (12), 680-683
Onchocerca volvulus, humans, detection of antibodies using adult O. gutturosa antigen; comparison of indirect haemagglutination, agar gel diffusion, and countercurrent immunoelectrophoresis methods; cross reactions with sera of persons infected with Wuchereria bancrofti

Immunity, Precipitation

- Nardin, E. H.; and Nussenzweig, R. S., 1978, *Nature*, London (5666), v. 274, 55-57
Plasmodium berghei-mouse and *P. knowlesi*-rhesus monkeys systems, detection of stage and species specific antiparasite antibodies with circumsporozoite precipitation and indirect immunofluorescence methods, preliminary application to *P. falciparum* in humans with similar results

Immunity, Precipitation

- Norden, C. W.; et al., 1978, *Ann. Int. Med.*, v. 89 (1), 144-145 [Letter]
 human echinococcal infection, importance of diagnosis by immunoelectrophoresis if there is possibility that serologic studies (indirect hemagglutination, bentonite flocculation) give positive results that do not correlate with clinical history

Immunity, Precipitation

- Oelerich, S., 1977, *Tropenmed. u. Parasitol.*, v. 28 (4), 539-544
Paragonimus uterobilateralis, *P. africanus*, *Macaca mulatta* (exper.), serological changes (indirect hemagglutination, complement fixation, double gel diffusion), cross-reactions occurred but species could be differentiated by disc-electrophoresis; supplemented by parasitologic and radiologic observations of other authors

Immunity, Precipitation

- Pellegrino, J.; and de Mello, R. T., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (1), 1-4
Schistosoma mansoni, humans, diagnosis using the circumoval precipitin test with indirect immunofluorescence, good sensitivity and specificity

Immunity, Precipitation

- Pifer, L. L.; et al., 1978, *Pediatrics*, Am. Acad. Pediat., v. 61 (1), 35-41
Pneumocystis carinii, methods (counterimmunoelectrophoresis and indirect immunofluorescence) of detecting antigen and antibody in sera of normal and immunosuppressed children, evidence that subclinical infections are highly prevalent in normal children while active disease is prevalent in the compromised child

Immunity, Precipitation

- Pinheiro, Z. B.; de Oliveira, O. S.; and Barbosa, W., 1974, *Rev. Patol. Trop.*, v. 3 (2), 153-170
Leishmania donovani, analysis of data from serologic study of persons with confirmed visceral leishmaniasis: electrophoresis, immunoelectrophoresis, counter-immunoelectrophoresis, Ouchterlony immunodiffusion

Immunity, Precipitation

- Pinon, J. M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 318-324
 hydatidosis, human, evaluation of immunoelectrodifusion test (IED) vs. immunoelectrophoresis and indirect hemagglutination, sensitivity of IED increased and classes of immunoglobulins defined by combining enzymatic labelling with IED resulting in ELIEDA (enzyme-linked immunoelectrodifusion assay)

Immunity, Precipitation

- Pinon, J. M.; Sulahian, A.; and Dropsy, G., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 492-495
Schistosoma mansoni, human, use of enzyme-linked-immuno-electro-diffusion-assay (ELIEDA) to study humoral antibodies

Immunity, Precipitation

- Pozzuoli, R.; et al., 1976, *Recenti Prog. Med.*, v. 60 (6), 625-638
Echinococcus granulosus, humans, comparative evaluation of immunoserological diagnostic methods, review

Immunity, Precipitation

- Przyjałkowski, Z.; Zapart, W.; and Starzynski, S., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (12), 875-880
Toxocara canis, mice, intravital diagnosis of early larva migrans, serological and haematological tests, histopathological changes in tissues, numbers of larvae detected in various internal organs

Immunity, Precipitation

- Rajasekariah, G. R.; and Howell, M. J., 1979, *J. Parasitol.*, v. 65 (4), 481-487
Fasciola hepatica, rats, transfer of immunity by serum and cells from infected to naive animals, hematological and precipitating antibody responses of recipients

Immunity, Precipitation

- Ranque, J.; et al., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 579-584
Leishmania donovani, humans, canines, sero-immunological diagnosis, review

Immunity, Precipitation

- Reis, A. P.; Katz, N.; and Pellegrino, J., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (4), 245-248
Schistosoma mansoni, human, double diffusion tests compared in chronic infections, early stage infections, and in normal controls

Immunity, Precipitation

- Richard-Lenoble, D.; et al., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (6), 553-560
 hydatidosis, human, serodiagnosis (radio-immunoassay, indirect haemagglutination, immuno-electrodifusion), subclasses of specific anti-hydatid immunoglobulin, detection of circulating immune complexes

Immunity, Precipitation

- Rijpsstra, A. C., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 415-425
 intestinal parasites, primary school children, prevalence survey using duplicated series of stool examinations by 5 different methods; serologic survey for invasive amoebiasis and schistosomiasis: Nairobi

Immunity, Precipitation

- Rodriguez Osorio, M.; et al., 1978, *Rev. Iber. Parasitol.*, v. 38 (3-4), 793-804
Sarcocystis moulei, caprine, comparative study of 3 diagnostic tests, peptic artificial digestion, immunodiffusion, and indirect immunofluorescence

Immunity, Precipitation

Rotmans, J. P., 1978, *Exper. Parasitol.*, v. 46 (1), 49-58

Schistosoma mansoni, antigenic characterization of malate dehydrogenase isoenzymes by immunoelectrophoresis, malate dehydrogenase antigens in *S. mansoni*, *S. haematobium*, and *S. bovis* are immunologically indistinguishable, attempted use of these antigens in defined antigen substrate spheres system, not sensitive enough for immunodiagnosis

Immunity, Precipitation

Ruiz-Tiben, E.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 230-236

Schistosoma mansoni, human, 6 serologic tests evaluated by comparing their results with those of sensitive stool examination method, relationship between intensity of infection and sensitivity and specificity of serologic tests: Parcelas de Boqueron, Puerto Rico

Immunity, Precipitation

Saathoff, M.; Kasper, M.; and Demmer, H., 1978, *Deutsche Med. Wchnschr.*, v. 103 (41), 1606-1608, 1609-1611

Trichinella spiralis, humans, animals, diagnosis, sensitivity and specificity of 4 different serological tests, serologic differentiation from some other helminth infections with which cross-reactions occur

Immunity, Precipitation

Saiz Moreno, L.; et al., 1977, *Rev. San. e Hig. Pub.*, v. 51 (3-4), 341-347

human echinococcosis, immunoelectrophoretic diagnosis, possible desensitizing of patients with precipitating antigens, results hopeful

Immunity, Precipitation

Santoro, F.; Bout, D.; and Capron, A., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (5), 293-297

Schistosoma mansoni, humans, immune complexes higher in sub-clinical and hepato-intestinal forms than in hepatosplenic forms, detection by precipitation, radioimmunoassay and complement fixation compared

Immunity, Precipitation

Santoro, F.; Vandemeulebrouke, B.; and Capron, A., 1978, *J. Immunol. Methods*, v. 24 (3-4), 229-237

Schistosoma mansoni-infected humans, mice, and rats, use of radioimmunoprecipitation-PEG assay to quantify total circulating schistosome antigens and circulating antigen '4', recommended for clinical studies

Immunity, Precipitation

Sato, Y.; et al., 1977, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 26 (4), 209-221

Angiostrongylus cantonensis, human, 7 suspected cases, immunodiagnosis (gel diffusion, immunoelectrophoresis, indirect hemagglutination, skin test), cross-reactions with other helminths observed: Okinawa

Immunity, Precipitation

Scapin, M.; and Tendler, M., 1975, *Rev. Soc. Brasil. Med. Trop.*, v. 9 (1), 11-14

Schistosoma mansoni, rapid method for precipitation of antigenic fraction from adult worms using immunoelectrophoresis

Immunity, Precipitation

Scapin, M.; and Tendler, M., 1975, *Rev. Soc. Brasil. Med. Trop.*, v. 9 (2), 91-93

Schistosoma mansoni, extraction of 3 antigenic fractions from adult worms using KCl; fractions used for immunodiagnostic study by electrophoresis

Immunity, Precipitation

Sheehan, D. J.; et al., 1979, *J. Clin. Microbiol.*, v. 10 (2), 128-133

Entamoeba histolytica, human, diagnosis, comparison of microscopic, cultural, counterimmunoelectrophoresis, and indirect hemagglutination techniques

Immunity, Precipitation

da Silva, L. C.; et al., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (2), 121-130

Schistosoma mansoni, humans, immunodiffusion, hemagglutination, immunofluorescence and eosinophil counts before and after therapy with hycanthone or niridazole

Immunity, Precipitation

da Silva, L. C.; et al., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (6), 344-349

human schistosomiasis *mansoni*, immunofluorescence, passive hemagglutination, and immunodiffusion tests used to detect early antibody increases after hycanthone therapy

Immunity, Precipitation

de Souza, M. do C. M.; and Barbosa, W., 1972, *Rev. Patol. Trop.*, v. 1 (4), 415-419

antigens of *Crithidia fasciculata*, *Trypanosoma cruzi* and *Leishmania brasiliensis* showed cross-reacting precipitating bands with the antigen of *Leptomonas pessoai* as demonstrated by the agar gel diffusion technique

Immunity, Precipitation

Stankiewicz, M., 1970, *Acta Parasitol. Polon.*, v. 18 (27-41), 463-472

Strongyloides papillosus, sheep, complement fixing and precipitating antibodies after infection and re-infections

Immunity, Precipitation

Thomas, V.; Ogunba, E. O.; and Fabiyi, A., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (5), 451-456

Schistosoma mansoni, *S. haematobium*, humans, evaluation of seroimmunologic techniques (indirect fluorescent antibody, complement fixation and counter-current immunoelectrophoresis) for diagnosis; cross reactions were consistently present so that it was not possible to differentiate between the parasites: Nigeria

Immunity, Precipitation

Todorov, T.; and Jeleva, R., 1979, *Tropenmed. u. Parasitol.*, v. 30 (2), 182-188

echinococcosis, humans, demonstration of precipitating antibodies using a counter immunoelectrophoresis and antigen prepared from hydatid fluid from sheep liver cysts

Immunity, Precipitation

Torres-Rodriguez, J. M.; and Wisnivesky, C., 1978, *Ann. Parasitol.*, v. 53 (5), 479-486

Echinococcus granulosus, mice (exper.), kinetics of serological response, immunoelectrophoresis, double diffusion, latex agglutination, and passive hemagglutination

Immunity, Precipitation

- Van Meirvenne, N.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 545-549
gambian and rhodesian sleeping sickness, humans, serological and parasitological diagnostic methods, review

Immunity, Precipitation

- Varela-Diaz, V. M.; et al., 1977, Ztschr. Parasitenk., v. 53 (2), 183-188
Echinococcus multilocularis, Alaskan and Swiss patients with surgically confirmed cases, sera reveal E. granulosus diagnostic arc 5 in immunoelectrophoresis test, suggests that test based on arc 5 positivity is not E. granulosus-specific as originally described

Immunity, Precipitation

- Varela-Diaz, V. M.; Coltorti, E. A.; and D'Alessandro, A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 554-557
sera from 2 patients (one with Echinococcus vogeli and one with cysticercosis associated with multiple myeloma) were positive to immunoelectrophoresis test for hydatidosis based on E. granulosus arc 5 positivity criterion

Immunity, Precipitation

- Vinayak, V. K.; Jain, J.; and Naik, S. R., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 581-582
Giardia lamblia, human, demonstration of antibodies using immunodiffusion technique with cysts as antigen

Immunity, Precipitation

- Waller, T.; Morein, B.; and Fabiansson, E., 1978, Lab. Animals, v. 12 (3), 145-148
Encephalitozoon cuniculi, rabbits, humoral immune response following different routes of infection, india-ink immunoreaction test, indirect immunofluorescent antibody test, and immunodiffusion test, immunoglobulin classes involved, possible use of results in eradication program

Immunity, Precipitation

- Willlaert, E.; et al., 1974, Ann. Soc. Belge Med. Trop., v. 54 (4-5), 333-342
Naegleria fowleri, variants in Australian strains, immunoelectrophoretic analysis shows them to have antigenic identity with human stains causing meningoencephalitis in other parts of world

Immunity, Precipitation

- Yarzabal, L. A.; et al., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (5), 263-268
Echinococcus granulosus, human pulmonary hydatid cysts, immunoelectrophoresis evaluated for diagnosis

Immunity, Precipitation

- Yogore, M. G.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (1), 23-31
schistosomiasis japonica, human, plasma circumoval precipitin test proposed as basic diagnostic tool for epidemiologic studies; Philippines

Immunity, Precipitation

- Yogore, M. G., jr.; Lewert, R. M.; and Blas, B. L., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 344-355
Schistosoma japonicum, humans, diagnosis, comparative evaluation of quantitative stool examination vs. circumoval precipitin test using serum or eluate from blood dried on filter paper: Barrio San Antonio, Basey, Samar, Philippines

Immunity, Precipitation

- Yong, W. K.; and Heath, D. D., 1979, Parasite Immunol., v. 1 (1), 27-38
Echinococcus granulosus-, Taenia hydatigena-, and T. ovis-infected sheep, immunoelectrophoretic (IEP) identification of 'arc 5' antibodies in sera; antigen similar to 'arc 5' antigen of E. granulosus cyst fluid demonstrated in T. hydatigena cyst fluid but not positively identified in T. ovis cyst fluid; evaluation of performance of IEP

Immunity, Precipitation

- Zapart, W., 1970, Acta Parasitol. Polon., v. 18 (1-12), 7-23
Ascaris suum, guinea pigs, rabbits, complement fixation test, ring precipitation test, comparison of results using whole antigen vs. antigens fractionated by 2 different methods

Immunity, Precipitation

- Zapart, W., 1970, Acta Parasitol. Polon., v. 18 (13-26), 209-220
Ascaris suum, evaluation of 5 antigens prepared by different methods of fractionation (agar-gel precipitation, immunoelectrophoresis, complement fixation, and ring precipitation tests), chromatography and chemical analysis of different antigens

Immunity, Precipitation

- Zapart, W.; and Przyjalkowski, Z., 1976, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 24 (5), 293-298
Toxocara canis, laboratory mice, diagnosis by ring precipitation and latex agglutination; hematological changes

Immunity, Precipitation

- Zyngier, F. R., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (6), 427-432
Ascaris suum and Toxocara canis, rabbits and Rhesus monkeys, diagnosis using T. canis antigen for complement fixation, passive haemagglutination, and immunodiffusion tests, extensive cross-reactivity

Immunity, Premunition

- Ahmed, F. E.; and Mohammed, A. H. H., 1978, Ztschr. Parasitenk., v. 57 (3), 229-236
Haemoproteus columbae in Columba livia (exper.), course of infection, relapse, and immunity to reinfection

Immunity, Premunition

- Ajayi, J. A.; and Todd, A. C., 1975, Bull. Animal Health and Prod. Africa, v. 23 (1), 103-108
Haemonchus contortus, lambs, primary infection with less pathogenic isolate, second infection with more pathogenic isolate, interactions of 2 populations, effect on hosts, results demonstrate degree of premunition

- Immunity, Premunition
Eling, W., 1978, Tropenmed. u. Parasitol., v. 29 (1), 77-84
Plasmodium berghei, mice, fading of immunity
- Immunity, Premunition
Eling, W. M. C., 1978, Israel J. Med. Sc., v. 14 (5), 542-553
Plasmodium berghei-mouse model, immunization with living parasite as antigen, survival of parasites in immunized hosts, immunity and premunition, speculations on malaria immunity in man, symposium presentation
- Immunity, Premunition
Hafizi, A.; and Mobabber, F. Z., 1978, Clin. and Exper. Immunol., v. 33 (3), 389-394
Toxoplasma gondii, mice, reversal of effect of cyclophosphamide by passive immunization, data indicate that antibody plays important role in establishing infection-immunity (premunition) in this system
- Immunity, Premunition
Vizcaino, O.; et al., 1978, Am. J. Vet. Research, v. 39 (2), 229-233
Anaplasma marginale, response of calves inoculated with 3 different doses of attenuated A. marginale vaccine and subsequently challenged with a virulent strain; effects of field challenge exposure in calves inoculated with Anaplasma vaccine and premunized with both Babesia bigemina and B. argentina: Colombia
- Immunity, Radioimmunoassay
Fruit, J.; et al., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 257-266
Trypanosoma gambiense, humans, T. brucei, rats, immune complexes, characterization by radioimmunoprecipitation
- Immunity, Radioimmunoassay
Hillyer, G. V.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 661-669
Schistosoma mansoni, sera from infected persons, immunodiagnosis, comparison of enzyme-linked immunosorbent assay, radioimmunoassay and precipitation tests performed with antigens from eggs
- Immunity, Radioimmunoassay
Mitchell, G. F.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (3), 287-302
Mesocostoides corti, mice, development of sensitive and specific prototype immunodiagnostic reagent based on use of an anti-parasite hybridoma antibody
- Immunity, Radioimmunoassay
Miyamoto, T.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (4), 220-226
Schistosoma japonicum, humans, total IgE by single radial immunodiffusion method, specific IgE by radioallergosorbent test, threshold values of skin tests: Yamanashi Prefecture
- Immunity, Radioimmunoassay
O'Donnell, I. J.; and Mitchell, G. F., 1978, Austral. J. Biol. Sc., v. 31 (5), 459-487
Ascaris lumbricoides (var. suum), humans, mice, allergens investigated using radioallergosorbent test and passive cutaneous anaphylaxis test, cross-reactions with other helminths, some biochemical and immunobiological properties of allergens
- Immunity, Radioimmunoassay
Ogilvie, B. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 66-71
Necator americanus, man (exper.), evaluation of antibody responses by enzyme-linked immunosorbent assay and by radio-allergo-sorbent technique
- Immunity, Radioimmunoassay
Pozzuoli, R.; et al., 1976, Recent Prog. Med., v. 60 (6), 625-638
Echinococcus granulosus, humans, comparative evaluation of immunoserological diagnostic methods, review
- Immunity, Radioimmunoassay
Richard-Lenoble, D.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 553-560
hydatidosis, human, serodiagnosis (radioimmunoassay, indirect haemagglutination, immuno-electrodiffusion), subclasses of specific anti-hydatid immunoglobulin, detection of circulating immune complexes
- Immunity, Radioimmunoassay
Santoro, F.; Bout, D.; and Capron, A., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (5), 293-297
Schistosoma mansoni, humans, immune complexes higher in sub-clinical and hepato-intestinal forms than in hepatosplenic forms, detection by precipitation, radioimmunoassay and complement fixation compared
- Immunity, Radioimmunoassay
Santoro, F.; Vandemeulebrouke, B.; and Capron, A., 1978, J. Immunol. Methods, v. 24 (3-4), 229-237
Schistosoma mansoni-infected humans, mice, and rats, use of radioimmunoprecipitation-PEG assay to quantify total circulating schistosome antigens and circulating antigen '4', recommended for clinical studies
- Immunity, Radioimmunoassay
Sinski, E.; and Holmes, P. H., 1978, J. Parasitol., v. 64 (1), 189-191
Nippostrongylus brasiliensis, radioimmunoassay to measure local and circulating specific IgG and IgA antibody responses in rats
- Immunity, Radioimmunoassay
Skromne-Kadlubik, G.; et al., 1978, Medicina, Mexico (1228), an. 58, v. 58, 1-4
Onchocerca volvulus, rabbits, possible diagnosis and treatment of onchocercoma using ¹²⁵I-labelled antibodies
- Immunity, Radioimmunoassay
Suzuki, T.; et al., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (1), 17-23
Anisakis, analysis of criteria on intradermal and indirect hemagglutination tests by radioimmunoassay
- Immunity, Skin tests
de Alencar, R. A. (filho), 1978, Arq. Inst. Biol., Sao Paulo, v. 45 (2), 101-115
echinococcosis, cattle, swine, diagnosis by latex agglutination, immunodiffusion, and Casoni skin test compared

Immunity, Skin tests

- Alvarez Gomez, L. de las N., 1977, Rev. Cubana Med. Trop., v. 29 (2), 61-65
 Giardia lamblia, technique for the preparation of antigen extract from trophozoites and cysts, study of immunoallergic characteristics in experimental animals and normal human controls

Immunity, Skin tests

- Amato Neto, V.; Bianchi, A.; and Pannuti, C. S., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (2), 94-98
 Toxoplasma gondii, chlorodinitrobenzene skin test for diagnosis of acquired lymphatic toxoplasmosis

Immunity, Skin tests

- Amin-Zaki, L.; Al-Saffar, G.; and Al-Aswad, B., 1971, Folia Parasitol., v. 18 (2), 179-182
 Toxoplasma skin tests, mentally retarded children and their mothers, conclusion that toxoplasmosis does not play great role in mental retardation causation: Iraq

Immunity, Skin tests

- Antunes, L. J.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (1), 9-13
 human intestinal schistosomiasis mansoni before and after treatment with aminonitrothiazole, immunoglobulin levels, immediate and delayed cutaneous hypersensitivity

Immunity, Skin tests

- Barbour, A. G.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 94-100
 Echinococcus granulosus, humans, prevalence by age, sex, dog ownership, extent of sheep raising, and infected dog exposure, efficacy of intradermal, indirect hemagglutination, and bentonite flocculation tests for screening: Utah

Immunity, Skin tests

- Bartlett, A.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 372-377
 onchocerciasis, human, immediate and delayed skin reactions to Onchocerca volvulus and Necator americanus antigens, variations in response in generalized vs. localized (sowda) forms of disease

Immunity, Skin tests

- Bobkova, A. F.; et al., 1977, Vet. Nauka--Proizvod., Trudy, Minsk, v. 15, 86-90
 Liorchis scotiae, Paramphistomum ichikawai, preparation and testing of antigen for skin test diagnosis of bovine paramphistomiasis

Immunity, Skin tests

- Bratanov, V.; Stoianova-Zaikova, L.; and Lilkova, N., 1977, Vet. Med. Nauki, v. 14 (1), 24-35
 Trichinella spiralis, pigs (exper.), specificity of skin allergy test, tube precipitation reaction, and Ouchterlony double gel diffusion technique in diagnosis

Immunity, Skin tests

- Brossard, M.; and Girardin, P., 1979, Experimentia, v. 35 (10), 1395-1397
 Ixodes ricinus, rabbits, passive transfer of resistance with immune serum, effect on feeding and egg laying, IgG and homocytotropic specific antibodies of donors and recipients, immediate skin sensitivity of recipients

Immunity, Skin tests

- de Carvalho, A. B.; Almeida, M. T.; and Magalhaes Filho, A., 1972, Rev. Soc. Brasil. Med. Trop., v. 6 (4), 185-190

S[chistosoma] mansoni, study of possible influence of antigen source (mouse, human) on diagnostic skin test reactions; skin reactions smaller when human antigen used, persons with allergic conditions had larger reactions

Immunity, Skin tests

- Ceruzzi-Romeo, O.; Osimani, J. J.; and Cabrera, R., 1975, Rev. Uruguaya Patol. Clin. y Microbiol., v. 13 (2), 43-51

Toxoplasma gondii, human, control reagent prepared from mouse peritoneal exudate used for toxoplasmin diagnostic skin test, comparison with the more commonly employed reagent of mouse spleen extract; study of 50 persons thought to have toxoplasmosis showed the new reagent to be equally reactive with some advantages over the spleen extract

Immunity, Skin tests

- Chen, S. N.; et al., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (8), 411-416

Angiostrongylus cantonensis, prevalence survey using purified whole worm skin test antigen, epidemiologic observations: Taiwan

Immunity, Skin tests

- Dharmkrong-at, A.; Uahkowitzchai, V.; and Sirisinha, S., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 330-337
 Angiostrongylus cantonensis, rats (exper.) humoral and cell-mediated immune responses to somatic and metabolic antigens analyzed using hemagglutination, macrophage migration inhibition, and cutaneous hypersensitivity tests

Immunity, Skin tests

- El-Kalouby, A.; et al., 1977, Egypt. J. Bilharz., v. 4 (2), 179-185
 S. haematobium, S. mansoni and mixed infections, humans, immediate skin test reactions to Schistosoma antigen

Immunity, Skin tests

- El-Raziky, E. H.; et al., 1977, Egypt. J. Bilharz., v. 4 (2), 195-201
 Schistosoma mansoni, S. haematobium, humans, delayed skin test reactions to S. mansoni antigen were increased with host age and severity of infections and were more frequent in males, correlations with immediate skin test reactions

Immunity, Skin tests

- Enders, B.; et al., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (6), 305-316
 Schistosoma mansoni antigens purified, evaluated for skin test use by trials in S. mansoni areas of Ethiopia, Rhodesia, and Brazil and in S. haematobium areas of Sierra Leone; comparisons with WHO standard antigen and stool examinations

Immunity, Skin tests

- Fonseca, O. J. de M.; Lacaz, C. da S.; and Machado, P. de A., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (6), 409-416
 immuno-allergic survey, humans, antigens employed included schistosomin and leishmanin: Estado de Amazonas

Immunity, Skin tests

Fuller, G. K.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (5), 417-431
kala-azar, humans, extensive epidemiologic survey using the leishmanin skin test: south-west Ethiopia

Immunity, Skin tests

Gajjar, P. D.; and Sinclair-Smith, C. C., 1978, *South African Med. J.*, v. 54 (23), 984-986
echinococcosis, renal infections in children, pathology, diagnosis, usefulness and limitations of Casoni skin test and serological tests: South Africa

Immunity, Skin tests

Genchi, C.; and Locatelli, A., 1978, *Clin. Vet.*, Milano, v. 101 (7), 376-378
Fasciola hepatica, cattle, allergic diagnosis by intradermal inoculation of lyophilized somatic antigen

Immunity, Skin tests

Hashiguchi, Y.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 543-548
Onchocerca volvulus microfilarial antigen skin test, useful in diagnosis and as epidemiological tool to assess effectiveness of control programs: Guatemala

Immunity, Skin tests

Hiatt, R. A.; Cline, B. L.; and Knight, W. B., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 535-541
Schistosoma mansoni, human, intradermal test, limitations as an epidemiologic tool: Puerto Rico

Immunity, Skin tests

Hoghoghi, N.; et al., 1977, *Trop. and Geogr. Med.*, v. 29 (4), 393-398
Echinococcus granulosus, humans, evaluation of indirect haemagglutination and immediate intradermal tests, diagnosis

Immunity, Skin tests

Kaushik, R. K.; and Sen, A. B., 1978, *Indian J. Animal Sc.*, v. 48 (3), 202-207
Ascaridia galli, development of precipitins in hyperimmunized rabbits, precipitation and intradermal tests in infected chicks gave negative results

Immunity, Skin tests

Kitani, K.; Miura, R.; and Iuchi, M., 1979, *Tohoku J. Exper. Med.*, v. 127 (2), 151-156
Schistosoma japonicum, humans with chronic infections, skin tests with S. mansoni and S. japonicum antigens both gave high degree of positive results indicating definite cross-reactivity

Immunity, Skin tests

Kristensen, S.; and Kieffer, M., 1978, *Nord. Vet.-Med.*, v. 30 (10), 414-423
flea allergy in dogs and cats, intradermal test with whole extract of Ctenocephalides felis; test evaluation procedure

Immunity, Skin tests

Laltoo, H.; Van Zoost, T.; and Kind, L. S., 1979, *Immunol. Commun.*, v. 8 (1), 1-9
Myocoptes musculus, mice, positive skin test to mite antigens, kinetics of IgE antibody response to mite antigens, mast cell degranulation by mite extract

Immunity, Skin tests

Lopez-Lemes, M. H.; et al., 1975, *Rev. Asoc. Argent. Microbiol.*, v. 7 (2), 39-43
human echinococcosis, comparison of diagnostic results obtained using immunoelectrophoresis and Casoni intradermal tests in patients where presence of cysts was later confirmed at surgery; immunoelectrophoresis test gave the better results but neither test was recommended for use

Immunity, Skin tests

Louzada, J. L. Z., 1974, *Rev. Brasil. Med.*, v. 31 (5), 323-324
Schistosoma mansoni, skin tests of population to ascertain incidence of parasitic infection in Rio Grande do Sul, Brasil

Immunity, Skin tests

Marlet, J. M., 1978, *Rev. Saude Pub., S. Paulo*, v. 12 (1), 23-25
human cysticercosis, description of new antigen used for a cutaneous diagnostic test, antigen is considered specific, sensitive and easy to use, suggested as test of choice for epidemiologic studies

Immunity, Skin tests

Mayrink, W.; et al., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (4), 268-271
Leishmania brasiliensis, patients before and after antimonial treatment, diagnosis, Montenegro's test using aqueous and polysaccharide antigens

Immunity, Skin tests

Mayrink, W.; et al., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (3), 182-185
Leishmania braziliensis, humans cured with glucantime, 52% negative reactions to Montenegro intradermal test, possible immunological implications

Immunity, Skin tests

Melo, M. N.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (3), 161-164
cutaneous leishmaniasis, human, standardization of Montenegro antigen for intradermal diagnostic test

Immunity, Skin tests

Miyamoto, T.; et al., 1975, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 24 (4), 220-226
Schistosoma japonicum, humans, total IgE by single radial immunodiffusion method, specific IgE by radioallergosorbent test, threshold values of skin tests: Yamanashi Prefecture

Immunity, Skin tests

Nishino, C., 1977, *Sapporo Igaku Zasshi (Sapporo Med. J.)*, v. 46 (2), 73-88
Anisakis, humans, epidemiologic survey, comparison of skin test, indirect hemagglutination, and serum IgE levels in randomly selected local inhabitants and in patients with anisakiasis, higher positive rates in workers in fishing industries than in those in farming industries: Hokkaido

Immunity, Skin tests

Ocklitz, H. W.; Grulich, M.; and Klimt, F., 1971, *Scand. J. Infect. Dis.*, v. 3 (3), 239-243
Toxoplasma gondii, children and juveniles surveyed for positive reactions to the toxoplasmin skin test, comparisons by age, and geographic locations in and around Berlin (GDR)

- Immunity, Skin tests**
Oldenburg, K., 1973, Roentgen-Blaetter, v. 26 (12), 523-536
bilateral symmetrical echinococcosis of tibiae, man, confirmation of diagnosis by radiograph, scintigraphy and intracutaneous antigen test
- Immunity, Skin tests**
Pellegrino, J.; Coelho, P. M. Z.; and Sampaio, I. B. M., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 363-364
Schistosoma mansoni, men vs. boys, intradermal test with histamine, no statistical difference in skin response, contrast with earlier results using specific schistosomal antigens (response significantly greater in men than in boys)
- Immunity, Skin tests**
Pellegrino, J.; Pereira, L. H.; and Furtado, T. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 393-396
mucocutaneous leishmaniasis, human, greater sensitivity to skin test using crude extract of Leishmania braziliensis than to promastigote suspension used as antigen
- Immunity, Skin tests**
Poletaeva, O. G., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (2), 143-148
Ascaris suum-infected laboratory animals, reagin-like antibody detected by passive dermal anaphylaxis test and by direct degranulation of mast cells; antibody appeared to belong to IgE; suggested that it participates in host protective response
- Immunity, Skin tests**
Rezai, H. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1079-1083
kala-azar, children, serum immunoglobulin and complement levels, percentage of T and B cells, skin reactivity to Leishmania antigen
- Immunity, Skin tests**
Ruitenbergh, E. J.; and Buys, J., 1979, Vet. Parasitol., v. 5 (1), 73-78
Trichinella spiralis, pigs, analyses for IgE performed by homologous passive cutaneous anaphylactic reactions and for IgG by enzyme linked immunosorbent assay, possible significance of findings for early diagnosis of infections
- Immunity, Skin tests**
Saeki, H., 1975, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 44 (5), 309-321
anisakiasis, studies on cell-mediated immunity in exper. guinea pigs and rabbits, positive skin test reactions suggest presence of delayed hypersensitivity, macrophage migration test proved more sensitive than skin tests and is suggested for use in study of immunity of anisakiasis
- Immunity, Skin tests**
Sato, Y.; et al., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (4), 209-221
Angiostrongylus cantonensis, human, 7 suspected cases, immunodiagnosis (gel diffusion, immunoelectrophoresis, indirect hemagglutination, skin test), cross-reactions with other helminths observed: Okinawa
- Immunity, Skin tests**
Schantz, P. M., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (4), 179-194
Echinococcus granulosus-infected sheep, comparative evaluation of the intradermal, Bentonite flocculation, and indirect hemagglutination diagnostic tests, some cross reactions with Taenia hydatigena-infected sheep (nat. and exper.), histopathology of intradermal reactions
- Immunity, Skin tests**
Senft, A. W.; et al., 1979, Parasite Immunol., v. 1 (1), 79-89
Schistosoma mansoni, Schistosoma haematobium, species-specificity of immediate hypersensitivity to schistosomal proteolytic enzyme (mouse mast cell degranulation and monkey skin tests)
- Immunity, Skin tests**
Shaker, Z. A.; et al., 1976, Egypt. J. Bilharz., v. 3 (2), 221-232
Schistosoma mansoni, S. haematobium, humans, demonstration of circulating bilharzial antigens using indirect haemagglutination and complement fixation techniques, correlation between % of positive cases and host age, duration of infection, clinical presentation, schistosome species, intradermal test results, and effect of chemotherapy
- Immunity, Skin tests**
Shoeb, S. M.; et al., 1977, Egypt. J. Bilharz., v. 4 (2), 141-148
bilharziasis, humans, diagnosis using fractionated Fasciola gigantica antigens for intradermal test vs. homologous Schistosoma mansoni antigen
- Immunity, Skin tests**
Smith, H. V.; and Tonkin, C. H., 1979, Research Vet. Sc., v. 26 (3), 302-307
Hyostrongylus rubidus, antigens prepared from various developmental stages and fractionation of adult worms, activity and usefulness as aid to serodiagnosis by passive haemagglutination and skin hypersensitivity reactions
- Immunity, Skin tests**
Soto Travieso, R.; et al., 1977, Rev. Cubana Med. Trop., v. 29 (2), 67-73
human toxoplasmosis, differential diagnosis using the toxoplasmin antigen for skin test
- Immunity, Skin tests**
Suzuki, T.; et al., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (4), 184-191
Anisakis, Terranova, human, immunological diagnosis, intradermal and indirect hemagglutination tests, histopathological examination of biopsied gastric mucous membranes
- Immunity, Skin tests**
Suzuki, T.; et al., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (1), 17-23
Anisakis, analysis of criteria on intradermal and indirect hemagglutination tests by radioimmunoassay

Immunity, Skin tests

- Taguri, S.; and Dar, F. K., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 338-341
 hydatid disease, human, differential diagnosis from cancer on basis of blood values and liver function tests, comparison of 3 immunodiagnostic tests (intradermal, complement fixation, indirect haemagglutination), usefulness of post-operative serological surveillance: Libya

Immunity, Skin tests

- Tewari, H. C.; Raviprakash, V.; and Sabir, M., 1978, Indian J. Physiol. and Pharmacol., v. 22 (3), 321-323

Dictyocaulus filaria, vascular permeability increasing action of worm extract in both infected and uninfected sheep and in uninfected rabbits partially due to histamine release, cutaneous hypersensitivity reaction may not provide reliable test for routine diagnosis

Immunity, Skin tests

- Vaage, L.; and Midtvedt, T., 1970, Scand. J. Infect. Dis., v. 2 (1), 65-69
Toxoplasma gondii, naval recruits, comparative evaluation of the Sabin-Feldman dye test and the toxoplasmin cutaneous test (TCT) to evaluate usefulness of the TCT for epidemiologic research: Norway

Immunity, Skin tests

- Vaage, L.; and Midtvedt, T., 1975, Scand. J. Infect. Dis., v. 7 (3), 218-221
Toxoplasma gondii, prevalence of positive toxoplasmin reactions among naval recruits from all parts of Norway

Immunity, Skin tests

- Vaage, L.; and Midtvedt, T., 1977, Scand. J. Infect. Dis., v. 9 (2), 135-136
Toxoplasma gondii, frequency of positive toxoplasmin cutaneous test studied in young males, neither keeping of domestic animals or bite by animal altered frequency of positive tests: Norway

Immunity, Skin tests

- Vernes, A., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 455-468
 helminthiasis, humans, value and limitations of hypersensitivity reactions for diagnosis, review

Immunity, Skin tests

- Zyngier, F. R., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 251-257
Toxocara canis and *Ascaris suum* infections compared, rabbits, monkeys, description of infection, haematological response, serum proteins, skin test with *T. canis* antigen

Immunity, Transfer factor. See Immunity, Passive.

Immunity, Vaccination. See Immunization.

Immunization. [See also Immunity, Passive]

Immunization

- Agrawal, M. C.; Sahasrabudhe, V. K.; and Gehlot, K., 1979, Indian Vet. J., v. 56 (8), 682-685
 mice, immunization against *Schistosoma indicum* by administration of cercariae of *S. indicum*

Immunization

- Aiyedun, B. A., 1977, Bull. Animal Health and Prod. Africa, v. 25 (3), 245-250
Trypanosoma gambiense, *T. brucei*, rats, induction of high level of immunity by administration of Freund's complete adjuvant a week before infection followed by cure with berenil

Immunization

- Alexander, J.; and Phillips, R. S., 1978, Exper. Parasitol., v. 45 (1), 93-100
Leishmania tropica major and *L. mexicana*, cross-immunity in mice, first reported observation of less virulent *Leishmania* species being able to confer immunity against a more virulent species

Immunization

- Ali, S. A. K.; Jabir, M. H.; and Singh, (Kr.) S., 1979, Indian J. Animal Sc., v. 49 (5), 373-376

Dictyocaulus filaria, lambs given irradiated vaccine or non-irradiated larvae, serum protein changes

Immunization

- Allen, J. R.; and Humphreys, S. J., 1979, Nature, London (5722), v. 280, 491-493
Dermacentor andersoni, immunization of guinea pigs and cattle against ticks

Immunization

- Andrade, S. G.; et al., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (6), 395-402
Trypanosoma cruzi, mice with chronic infection with Colombian strain, inoculation with virulent Y strain, results demonstrate that chronic infection produces partial immunity and that co-existence of parasite strains is possible

Immunization

- Ansari, M. Z.; and Singh, K. S., 1978, J. Helminth., v. 52 (4), 287-290
Gaigeria pachyscelis, lambs, vaccination with gamma-radiation-attenuated larvae stimulated development of resistance to subsequent challenge of 5000 non-irradiated larvae

Immunization

- Antunes, C. M. F.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (6), 383-386
Schistosoma mansoni, influence of gamma radiation on egg hatching, penetration power and development of miracidia in *Biomphalaria glabrata*, attempted immunization of snails with irradiated miracidia was unsuccessful

Immunization

- Araujo, F. G.; Nascimento, E.; and Morato, M. J. F., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 534-536
Trypanosoma cruzi, mice, exoantigens, time of appearance, failure to enhance infection, protective effect in immunization

Immunization

- Au, A. C. S.; and Ko, R. C., 1979, Etschr. Parasitenk., v. 58 (3), 233-242
Angiostrongylus cantonensis, rats, small primary infection followed by challenge infection at various periods, worm burden, haematological and serological response

Immunization

- Ayuya, J. M.; and Williams, J. F., 1979, Immunology, v. 36 (4), 825-834
Taenia taeniaeformis, rats, immunization, influence of antigen source, route of administration, and adjuvant selection on efficacy, mechanism of resistance in vaccinated animals is different from that which develops following infection

Immunization

- Bell, R. G.; and McGregor, D. D., 1979, Exper. Parasitol., v. 48 (1), 42-50
Trichinella spiralis, rats exposed to abbreviated enteral infection, induction and expression of rapid expulsion response to challenge infection

Immunization

- Bell, R. G.; and McGregor, D. D., 1979, Exper. Parasitol., v. 48 (1), 51-60
Trichinella spiralis, role of different life cycle phases in induction, maintenance, and expression of rapid expulsion in rats

Immunization

- Bezubik, B., 1970, Acta Parasitol. Polon., v. 18 (13-26), 291-297
Strongyloides papillosus, sheep, severity of infection in relation to dose of larvae and physical condition of host, animals challenged (6 months after initial infection) with lethal dose showed some degree of protection

Immunization

- Bezubik, B., 1978, Immunological response of sheep to ostertagiosis, haemonchosis and chabertiosis and preparation of UV vaccine, 205 pp.
Ostertagia circumcincta, *Haemonchus contortus*, *Chabertia ovina*, sheep, immunological response, preparation of UV vaccine, final technical report 1973-1978

Immunization

- Bezubik, B.; Jeska, E. L.; and Wedrychowicz, H., 1977, Acta Parasitol. Polon., v. 24 (28-34), 323-333
Ostertagia circumcincta, immunological response of sheep to UV-irradiated larvae

Immunization

- Bezubik, B.; and Wedrychowicz, H., 1976, Acta Parasitol. Polon., v. 24 (11-19), 185-190
 4 sheep nematodes, in vitro survival of larvae exposed to UV irradiation, preliminary to immunization studies

Immunization

- Bhopale, M. K.; and Johri, G. N., 1978, J. Helminth., v. 52 (3), 193-198
Ancylostoma caninum, mice, different groups infected with various single or repeated doses of larvae, larval recoveries from various organs and muscle regions of animals belonging to immunized and unimmunized groups

Immunization

- Bickle, Q. D., 1979, Parasitology, v. 79 (2), 209-222
Schistosoma mansoni, mice, immunization with gamma-irradiated schistosomula, effect of radiation dose, route of injection, and several other parameters

Immunization

- Bickle, Q. D.; et al., 1979, Parasitology, v. 78 (2), 185-193
Schistosoma mattheei, sheep, duration of resistance following homologous vaccination with irradiated schistosomula; heterologous vaccination with *Schistosoma mattheei* against challenge with *S. bovis* and with *S. mansoni* against *S. mattheei* failed to induce protection

Immunization

- Bickle, Q.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 37-41
Schistosoma mansoni, mice, failure of primary infections with cercariae of 1 sex to induce same degree of resistance to reinfection as bisexual primary infections

Immunization

- Bickle, Q. D.; and James, E. R., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 677-678
Schistosoma mansoni, resistance induced in mice immunized with cryopreserved unirradiated or irradiated schistosomula

Immunization

- Blagburn, B. L.; Chobotar, B.; and Smith, R. T., 1979, Ztschr. Parasitenk., v. 59 (1), 1-14
Eimeria ferrii in *Mus musculus*, clinical and histologic study of actively induced resistance

Immunization

- Bomford, R.; and McHardy, N., 1979, Parasitology, v. 78 (1), 77-87
Trypanosoma cruzi, comparative efficacy of adjuvants for epimastigote vaccines (*Corynebacterium parvum*, saponin, Bordetella pertussis)

Immunization

- Bout, D.; et al., 1978, Immunochemistry, v. 15 (9), 633-638
Schistosoma mansoni, malate dehydrogenase (MDH), purification, immunochemical and biological characterization, mice immunized with purified MDH exhibited significant decrease of worm burden

Immunization

- Boyer, M. H.; and Kalfayan, L. J., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 542-547
Schistosoma mansoni, mice, presence of transferred adult worms in mesenteric veins is associated with decreased recovery of worms from later cercarial challenge

Immunization

- Brown, K. N., 1978, Israel J. Med. Sc., v. 14 (5), 571-574
 malaria, factors influencing outcome of infection, antigenic specificity of and protective immunity to asexual erythrocytic parasites, symposium presentation

Immunization

- Buening, G. M., 1978, Am. J. Vet. Research, v. 39 (6), 925-930
Anaplasma marginale, cows, chemically modified *Anaplasma* antigen induced cell-mediated immune response with diminished antibody response to contaminating erythrocyte antigens; only cows given standard *Anaplasma* antigen (not chemically modified) developed *Anaplasma* antibodies and significant bovine erythrocyte antibody titer

Immunization

- Bushara, H. O.; et al., 1978, *Parasitology*, v. 77 (3), 303-311
Schistosoma bovis, calves, immunization using irradiated cercariae or schistosomula

Immunization

- Buslaev, V. M., 1978, *Veterinariia*, Moskva (4), 72-74
Dictyocaulus filaria, sheep, immunization with antigens from *Aphelenchus avenae* or *Neoplectana glaseri*

Immunization

- Butcher, G. A.; Mitchell, G. H.; and Cohen, S., 1978, *Immunology*, v. 34 (1), 77-86
Plasmodium knowlesi, *Macaca mulatta*, antibody-mediated mechanisms associated with sterilizing immunity induced by merozoite vaccination, role of Freund's complete adjuvant

Immunization

- Campbell, N. J.; et al., 1978, *Vet. Parasitol.*, v. 4 (2), 143-152
Fasciola hepatica, failure to induce homologous immunity in sheep vaccinated with irradiated metacercariae

Immunization

- Campbell, N. J.; Kelly, J. D.; and Martin, I. C. A., 1979, *Internat. J. Parasitol.*, v. 9 (5), 469-474
Taenia taeniaeformis, *Fasciola hepatica*, rats, homologous resistance and cross resistance

Immunization

- Carter, R.; Gwadz, R. W.; and Green, I., 1979, *Exper. Parasitol.*, v. 47 (2), 194-208
Plasmodium knowlesi, chickens, elaboration of antigamete antibodies during immunization and infection and their relationship to fertilization of malaria gametes in vitro and to transmission-blocking immunity in vivo, comparison with rhesus monkeys immunized with *P. knowlesi* gametes

Immunization

- Carter, R.; Gwadz, R. W.; and McAuliffe, F. M., 1979, *Exper. Parasitol.*, v. 47 (2), 185-193
Plasmodium gallinaceum, chickens, comparative effectiveness of gametocyte- and gamete-containing preparations in inducing transmission-blocking immunity

Immunization

- Chaia, G., 1969, *Rev. Inst. Med. Trop. S. Paulo*, v. 11 (1), 19-24
Strongyloides avium, chickens immunized with irradiated larvae, worms recovered from vaccinated chickens had underdeveloped genital apparatus and no eggs were seen developing in uteri

Immunization

- Chedd, L., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 249-262
therapeutic potential of immunoregulating synthetic compounds, enhancement of non-specific and specific immunity against parasitic infections by administration of various adjuvants, biological activity of synthetic immunoregulating molecules, colloquium presentation

Immunization

- Chhabra, M. B.; Mahajan, R. C.; and Ganguly, N. K., 1979, *Haryana Agric. Univ. J. Research*, v. 9 (1), 59-62
Toxoplasma gondii, mice (exper.), value of double vaccination by irradiated tachyzoites

Immunization

- Chhabra, M. B.; Mahajan, R. C.; and Ganguly, N. K., 1979, *Internat. J. Radiation Biol.*, v. 35 (5), 433-440
Toxoplasma gondii, mice, immunization, ^{60}Co irradiation, degree and duration of protection

Immunization

- Chiari, E.; et al., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (5), 255-260
Trypanosoma cruzi, behavior of 3 culture forms (PF, PF^{II}, and MR⁴⁴) tested in mice and triatomids, pathologic changes observed with all 3 forms, living vaccines or 'attenuated' culture forms not recommended for control programs

Immunization

- Christie, M. G.; et al., 1978, *J. Comp. Path.*, v. 88 (2), 157-165
Haemonchus contortus, fistulated or non-fistulated sheep, acquired resistance to repeated daily doses of 10,000 infective larvae, no association of resistant state with raised abomasal pH, histology of mucosa after prolonged exposure

Immunization

- Civil, R. H.; Warren, K. S.; and Mahmoud, A. A. F., 1978, *J. Infect. Dis.*, v. 137 (5), 550-555
Schistosoma mansoni, mice, non-specific resistance induced by bacille Calmette-Guerin, variables associated with source and strain of BCG, dose, route, and timing of mycobacterial administration, and duration of protection

Immunization

- Clark, I. A., 1979, *Infect. and Immun.*, v. 24 (2), 319-325
Babesia spp., *Plasmodium vinckei petteri*, mice, protection conferred by pretreatment with extract of *Coxiella burnetii*, possible involvement of interferon or tumor necrosis factor

Immunization

- Clegg, J. A.; and Smith, M. A., 1978, *Advances Parasitol.*, v. 16, 165-218
prospects for development of dead vaccines against helminths, review

Immunization

- Cohen, S., 1978, *Israel J. Med. Sc.*, v. 14 (5), 537-541
malaria, mechanisms of acquired immunity to erythrocytic stage, symposium presentation

Immunization

- Cohen, S., 1979, *Proc. Roy. Soc. London, s. B., Biol. Sc.* (1153), v. 203, 323-345
immunity to malaria with emphasis on vaccination, review lecture

Immunization

- Cohen, S.; and Mitchell, G. H., 1978, *Current Topics Microbiol. and Immunol.*, v. 80, 97-137
malaria, prospects for immunization, review

Immunization

- Collins, W. E.; Chin, W.; and Skinner, J. C., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 948-954
Plasmodium fragile in *Macaca mulatta* as model system for study of malarial vaccines

Immunization

- Corrier, D. E.; et al., 1979, *Trop. Animal Health and Prod.*, v. 11 (4), 215-221
Babesia bigemina- and *B. bovis*-immunized *Ros taurus* calves transported to lowland tropics, exposed to heavy vs. light *Boophilus microplus* infestation, resulting *B. bigemina*, and *B. bovis* parasitemias, mortality, weight loss, and anemia: Caribbean Coast, Colombia

Immunization

- Cottrell, B. J.; Playfair, J. H. L.; and De Souza, B. J., 1978, *Clin. and Exper. Immunol.*, v. 34 (2), 147-158
Plasmodium berghei and *P. yoelii*-vaccinated mice, manifestations of cell-mediated immunity

Immunization

- Cox, F. E. G., 1978, *Nature, London* (5664), v. 273, 623-626
 specific and nonspecific immunization against parasitic infections, review

Immunization

- Davies, C.; et al., 1979, *Research Vet. Sc.*, v. 26 (2), 259-260
Fasciola hepatica, unsuccessful attempts to immunise rats using in vitro culture antigens from newly excysted metacercariae

Immunization

- Day, K. P.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 217-239
Nippostrongylus brasiliensis vs. *Nematospiroides dubius*, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses

Immunization

- Dean, D. A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 951-956
Schistosoma mansoni, mice receiving unisexual primary infection did not develop detectable resistance to reinfection, mice receiving bisexual primary infection developed high degree of resistance

Immunization

- Dean, D. A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 957-965
Schistosoma mansoni, mice, resistance to secondary infection, evidence for correlation between egg deposition and worm elimination

Immunization

- Dhar, D. N.; and Sharma, R. L., 1978, *Indian J. Animal Sc.*, v. 48 (10), 762-764
Dictyocaulus filaria, goats, immunological response to vaccination with radiation-attenuated vaccine

Immunization

- Dhar, D. N.; and Sharma, R. L., 1978, *Vet. Parasitol.*, v. 4 (3), 221-229
Dictyocaulus filaria, lambs (exper.), impact of different quanta of single infections on length of prepatent period, onset of useful patency, larval production in faeces, clinical symptoms, and worm establishment in lungs; concluded that dose of 150 larvae per kg is most suitable for establishment of infection in lambs for vaccine production

Immunization

- D'iakova, T. E.; and Leutskaia, Z. K., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 22, 52-59
Ascaridia galli, immunization of normal chickens and chickens with avitaminosis A, mucopolysaccharide content in tissues compared with unimmunized controls

Immunization

- Dineen, J. K.; Gregg, P.; and Lascelles, A. K., 1978, *Internat. J. Parasitol.*, v. 8 (1), 59-63
Trichostrongylus colubriformis, colostrum-fed vs. colostrum-deprived lambs, vaccination with irradiated larvae at weaning, results do not support proposition that feedback inhibition mediated by maternal antibody may suppress response, however lambs segregated into 'responders' and 'non-responders' suggesting that genetically determined factors play important role in responsiveness of lambs, globule leucocytes may be involved in resistance mechanism but probably not eosinophils or neutrophils

Immunization

- Dineen, J. K.; Kelly, J. D.; and Campbell, N. J., 1978, *Internat. J. Parasitol.*, v. 8 (3), 173-176
Fasciola hepatica, nature and characteristics of cross protection produced in sheep by infection with *Cysticercus tenuicollis*, mechanism unknown, may be immunological

Immunization

- Doenhoff, M.; et al., 1978, *J. Helminth.*, v. 52 (3), 173-186
Schistosoma mansoni, mice, demonstration of resistance to reinfection using model system that involves perfusion of animals within 3 weeks of challenge at which time challenge-derived organisms are morphologically distinguishable from those of the primary infection which induced the resistance, comparison with more widely used assays

Immunization

- Dondero, T. J., jr.; Ow-Yang, C. K.; and Lie, K. J., 1977, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 8 (3), 359-363
Echinostoma audyi, *Hypoderaeum dingeri*, unsuccessful attempts to induce acquired resistance in *Lymnaea rubiginosa* using irradiated miracidia, amebocytic response to irradiated parasites was slow, no obvious enlargement of amebocyte-producing organ, no resistance to homologous challenge; development of acquired resistance may be related to speed with which snails destroy irradiated sporocysts

Immunization

- Doy, T. G.; Hughes, D. L.; and Harness, E., 1978, *Research Vet. Sc.*, v. 25 (1), 41-44
Fasciola hepatica, rats, 3-week-old initial infection results in high degree of immunity to subsequent challenge, this resistance could be detected within 48 h of challenge and was a true immunity and not an alteration in migratory behavior, eosinophils were prevalent in lamina propria of small intestine and increased markedly after challenge

Immunization

- Dubey, J. P., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 380-382
Toxoplasma gondii, chronically infected cats re-excreted *T. gondii* oocysts after superinfection with *Isospora felis*, this re-excretion was prevented in cats infected with *I. felis* before *T. gondii* infection, administration of BCG before *Toxoplasma* infection had no apparent effect on outcome of infection

Immunization

- Dubey, J. P., 1978, *J. Protozool.*, v. 25 (3, pt. 2), 382-384
Hammondia hammondi, *Besnoitia jellisoni*, *Toxoplasma gondii*, BCG, comparison of cross-protection in hamsters

Immunization

- Duncan, J. L.; Smith, W. D.; and Dargie, J. D., 1978, *Vet. Parasitol.*, v. 4 (1), 21-27
Haemonchus contortus, sheep, vaccination protected against challenge and was associated with raised levels of abomasal mucus IgA and serum IgG antibodies in adults but lambs were not protected and did not have raised levels of these antibodies, possible implications for immune unresponsiveness of lambs

Immunization

- Eling, W., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 204-209
Plasmodium berghei-immunized mice, parasite survival in relation to time and host strain

Immunization

- Eling, W. M. C., 1978, *Israel J. Med. Sc.*, v. 14 (5), 542-553
Plasmodium berghei-mouse model, immunization with living parasite as antigen, survival of parasites in immunized hosts, immunity and premunition, speculations on malaria immunity in man, symposium presentation

Immunization

- Eveland, L. K.; and Morse, S. I., 1978, *Exper. Parasitol.*, v. 45 (1), 19-25
Schistosoma mansoni, in vitro derived schistosomula attenuated by x-irradiation, infectivity and immunizing potential, mice

Immunization

- Finerty, J. F.; Krehl, E. P.; and McKelvin, R. L., 1978, *Infect. and Immun.*, v. 20 (2), 464-467
Trypanosoma rhodesiense-immunized mice, delayed-type hypersensitivity elicited, results suggest that T-cell activation was necessary component in protective response

Immunization

- Frenkel, J. K.; and Caldwell, S. A., 1975, *J. Infect. Dis.*, v. 131 (3), 201-209
Toxoplasma gondii, *Besnoitia jellisoni*, *Listeria*, and virus infections in mice and hamsters, challenge with homologous and heterologous species, components of specific immunity and nonspecific resistance

Immunization

- Friedberg, W.; et al., 1979, *J. Parasitol.*, v. 65 (1), 61-64
Hymenolepis nana, intestinal tissue phase in actively immunized mice, histopathology of reaction is consistent with that of humoral immunity

Immunization

- Furuya, M., 1977, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 26 (6), 350-366
Trypanosoma gambiense, mice, immunogenic (protective) activity of antigens prepared from nontreated and trypsin-pretreated living parasites, immune responses in mice immunized with subcellular components of parasites

Immunization

- Ghadirian, E.; and Meerovitch, E., 1978, *J. Parasitol.*, v. 64 (4), 742-743
Entamoeba histolytica, hamsters, intradermal vaccination with live axenic amebae, indirect hemagglutination antibody titers, protection against development of hepatic abscesses upon challenge

Immunization

- Ghandour, A. M.; and Magid, M. A., 1978, *J. Helminth.*, v. 52 (4), 303-304
Schistosoma mansoni, mice, immunization with ultra-violet irradiated cercariae

Immunization

- Gill, B. S., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (2), 215-219
Trypanosoma evansi, mice treated with suramin for patent infection developed partial and transient immunity against weak but not heavy challenge infection, poor grade immunity was ascribed to weakness of trypanosome antigen

Immunization

- Gill, B. S.; et al., 1978, *Internat. J. Parasitol.*, v. 8 (6), 467-469
Theileria annulata, calves, immunization by treating tick (*Hyalomma anatolicum anatolicum*) stabilate-induced infections with 1 or 2 doses of long-acting oxytetracycline vs. 8 doses of chlortetracycline

Immunization

- Goldman, M.; and Pipano, E., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 85-87
Theileria annulata, specific IgM and IgG antibodies detected in immunized or infected cattle

Immunization

Golenser, J.; et al., 1978, Israel J. Med. Sc., v. 14 (5), 606-610

Plasmodium berghei, immunization of chloroquinized rats against sporozoites by bites of infected mosquitoes: influence of number of exposures to infected mosquitoes on antibody titers and protection; influence of exposure to different numbers of infective mosquitoes on antibody production and protection; specificity of antiplasmodial antibodies; influence of passive transfer of sera from rats immune to sporozoites or to erythrocytic forms on development of sporozoites, symposium presentation

Immunization

Goven, A. J.; and De Buysscher, E. V., [1979], J. Parasitol., v. 64 (6), 1978, 1142-1143

Trichinella spiralis, mice, immunization by footpad injection of crude larval extract combined with Freund's complete adjuvant or incorporated in double emulsion, latter is preparation of choice

Immunization

Greenblatt, C. L.; et al., 1978, Israel J. Med. Sc., v. 14 (6), 712-717

summing-up of symposium on immunology and immunopathology of malaria

Immunization

Gregg, P.; et al., 1978, Vet. Parasitol., v. 4 (1), 35-48

Trichostrongylus colubriformis, response to vaccination of lambs aged 3 months compared to sheep aged 10 months, cause of relative unresponsiveness of lambs not known

Immunization

Gregg, P.; and Dineen, J. K., 1978, Vet. Parasitol., v. 4 (1), 49-53

Trichostrongylus colubriformis, response of sheep vaccinated with irradiated larvae to impulse and sequential challenge with normal larvae either superimposed upon immunizing infection or given after removal of vaccine worms with anthelmintic, protection seen in all cases

Immunization

Gwadz, R. W.; and Green, I., 1978, J. Exper. Med., v. 148 (5), 1311-1323

Plasmodium knowlesi, rhesus monkeys, vaccine effective against both sexual and asexual stages

Immunization

Halawani, A. A.; Farag, H. F.; and Awadalla, H. N., 1977, Tropenmed. u. Parasitol., v. 28 (4), 478-480

Schistosoma haematobium-infected mice challenged with *S. mansoni*, changes in egg-distribution sites, cross-mating, complete absence of cross-immunity

Immunization

Hansen, R.; de Silva, S.; and Strickland, G. T., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 574-578

Plasmodium berghei, IgM and IgG ant sporozoite antibodies in mice immunized with irradiation-attenuated sporozoites, detection by indirect fluorescent antibody test, correlation with protection, some cross-reaction with blood stage antigens but test should still prove useful

Immunization

Hashemi-Fesharki, R., 1978, Arch. Inst. Razi (30), 91-99

Theileria annulata, 3 strains of varying virulence, calves (exper.), primary infections with different doses, parasitological findings, host temperature, resistance to challenge with homologous and heterologous strains

Immunization

Hayat, B., 1976, Pakistan J. Scient. Research, Lahore, v. 28, 38-40

Eimeria tenella, chickens, immunization with gamma-irradiated oocysts

Immunization

Heath, D. D., 1978, Vet. Parasitol., v. 4 (1), 11-19

Taenia hydatigena, neonatal lambs, subcutaneous injection of viable eggs induced 100% protection against development of viable larvae from oral challenge but no protection against simultaneous infection with eggs of *Taenia ovis* and *Echinococcus granulosus*, maternally derived immunity was not enhanced by hyperimmunization of ewe but did not interfere with development of protection in immunized lambs, immunizing lesion regressed rapidly after treatment of lambs with mebendazole

Immunization

Heath, D. D.; et al., 1979, Parasitology, v. 79 (2), 177-182

Taenia ovis, duration of passive protection in lambs from immunized ewes

Immunization

Heath, D. D.; et al., 1979, Vet. Parasitol., v. 5 (1), 51-55

Taenia ovis, immunizing potential of various developmental stages injected subcutaneously into neonatal or 16-week-old lambs, colostrum-derived antibodies apparently suppressed immunizing potential of eggs in neonatal lambs

Immunization

Heath, D. D.; and Chevis, R. A. F., 1978, J. Parasitol., v. 64 (2), 252

Taenia pisiformis, rabbits, immunity to reinfection with larvae results from initial infection, may last for 12 months or more, and is not dependent on continued survival of initial infection

Immunization

Herlich, H., 1978, Vet. Parasitol., v. 4 (2), 153-160

Trichostrongylus axei, calves, immunization failed to result in significant resistance, similar results with *Ostertagia ostertagi* but strong resistance to reinfection with *Haemonchus contortus* developed

Immunization

Herlich, H., 1979, Am. J. Vet. Research, v. 40 (6), 774-776

Trichostrongylus axei, calves given low-degree long-term daily immunizing inoculations, infection kinetics, response to challenge exposure

Immunization

Herlich, H.; and Douvres, F. W., 1979, Am. J. Vet. Research, v. 40 (12), 1781-1782
gastrointestinal nematodes, cattle, immunization trials with in vitro-grown larvae or exoantigens, no treatment provided immunity to subsequent oral challenge exposure with normal infective larvae

Immunization

Heumann, A. M.; et al., 1979, Infect. and Immun., v. 24 (3), 829-836
Plasmodium berghei, high and low antibody responder lines of mice and their interline hybrids, antibody response induced by vaccination with irradiated parasitized erythrocytes, innate resistance and protective efficacy of vaccination, results indicate vaccination-induced immunity is essentially due to antibody response

Immunization

Hillyer, G. V., 1979, Exper. Parasitol., v. 48 (2), 287-295
Fasciola hepatica, complexity of adult worm antigens, cross-reactivity with sera to Schistosoma mansoni and Schistosoma japonicum, presence of one common antigen between the two genera, protection of mice immunized with Fasciola hepatica antigens to challenge exposure with Schistosoma mansoni cercariae

Immunization

Hillyer, G. V.; et al., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 149-151
Schistosoma mansoni, mice, Millipore diffusion chambers containing live adult worms implanted, produced specific antibodies but not resistance to reinfection

Immunization

Hillyer, G. V.; and Sagramoso de Ateca, L., 1979, Infect. and Immun., v. 26 (3), 802-807
Fasciola hepatica antigens which induce cross-protection against Schistosoma mansoni, isolation by concanavalin A affinity chromatography, properties

Immunization

Howell, M. J., 1979, J. Parasitol., v. 65 (5), 817-819
Fasciola hepatica, rats, vaccination with precipitated antigen-antibody complex recovered from cultures of metacercariae in immune rat serum and emulsified with Freund's complete adjuvant

Immunization

Howell, M. J.; and Sandeman, R. M., 1979, Internat. J. Parasitol., v. 9 (1), 41-45
Fasciola hepatica, precipitate which forms when metacercariae are cultured in immune rat serum is a complex of parasite metabolic antigen and rat Ig (possibly IgG), vaccination of rats with precipitate in FCA confers significant degree of protection

Immunization

Hsü, S. Y. L.; et al., 1979, Internat. Arch. Allergy and Applied Immunol., v. 59 (4), 383-393
Schistosoma japonicum, IgE, mast cells, and eosinophils in skin of Macaca mulatta immunized with X-irradiated cercariae

Immunization

Hsu, S. Y. L.; et al., 1979, Ztschr. Parasitenk., v. 59 (3), 235-243
Schistosoma mansoni, mice immunized with highly X-irradiated cercariae, lung recovery assay not suitable for measuring state of immunity in challenged mice

Immunization

Irvin, A. D.; Brocklesby, D. W.; and Purnell, R. E., 1979, Vet. Parasitol., v. 5 (1), 17-28
Babesia, Theileria, radiation and isotopic techniques in study and control of piroplasms of cattle, review

Immunization

Ito, A., 1978, Exper. Parasitol., v. 46 (1), 12-19
Hymenolepis nana, mice immunized with initial egg inoculation become resistant not only to egg but also to mouse-derived cysticeroid challenge, cortisone acetate suppresses immune response against the cysts, a few of egg-derived tapeworms can survive 6 or more months in some of the immunized mice

Immunization

Ito, A.; and Yamamoto, M., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (4), 247-253
Hymenolepis nana, inoculation with different doses of shell-free eggs, protective immunity, stage at which protection occurred

Immunization

Ito, A.; Yamamoto, M.; and Okamoto, K., 1978, Internat. J. Parasitol., v. 8 (2), 149-153
Hymenolepis nana, mice, primary infection with mouse-derived cysticeroids prepared from baby or adult mice did not make hosts immune to egg or cyst challenge whereas rapid protective immunity against egg challenge was acquired by inoculation with eggs, time course of cyst differentiation in baby mice was not different from that in adult mice

Immunization

Jagdish, S.; et al., 1979, Vet. Rec., v. 104 (7), 140-142
Theileria annulata, immunising infection in calves by injecting ground up infected Hyalomma anatolicum anatolicum supernate, severity of reactions in rolitetracycline-treated vs. non-treated calves compared, adequate protection, durable immunity to subsequent severe homologous challenge

Immunization

Johnson, J.; Reid, W. M.; and Jeffers, T. K., 1979, Poultry Science, v. 58 (1), 37-41
Eimeria tenella, chickens, floor-pen experiments comparing immunogenicity of 2 non-pathogenic parasite strains with control strain used in a commercial planned immunization program, strain Wis-F-125 gave flock immunity equivalent to control strain

Immunization

Jones, T. C.; Len, L.; and Hirsch, J. G., 1975, *J. Exper. Med.*, v. 141 (2), 466-482

Toxoplasma gondii, alterations in mice infected with toxoplasmas attenuated in virulence, effects of antibodies to *Toxoplasma* on survival and growth of these organisms in vitro, multiplication of toxoplasmas within macrophages from normal and immunized mice, requirements for lymphocytes and for *Toxoplasma* antigen for induction in macrophages of ability to suppress *Toxoplasma* multiplication and variation in these requirements with time after immunization, further characterization of lymphocyte-antigen effect on macrophages, effects on *Toxoplasma* multiplication in macrophages of supernates of immune lymphocyte-*Toxoplasma* antigen interactions

Immunization

Kaliraj, P.; et al., 1978, *Indian J. Exper. Biol.*, v. 16 (9), 994-995

Wuchereria bancrofti, rabbits, immunization with whole and soluble microfilarial (mf) antigens, analysis of rabbit anti-mf sera by agar gel diffusion, possible use of rabbit anti-mf sera in detection of circulating filarial antigen in human filarial cases

Immunization

Katz, N.; Oliveira, V. B.; and Rocha, R. S., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (4), 227

Schistosoma mansoni, school children previously treated with oxamniquine, vaccination with bacillus Calmette-Guerin (BCG) did not control reinfection of residents of endemic areas: State of Minas Gerais, Brazil

Immunization

Khalacheva, M.; and Kararizova, L., 1977, *Vet. Med. Nauki*, v. 14 (3), 32-38

Babesia ovis, effect of ionizing radiation on virulence and immunogenic properties

Immunization

Kierszenbaum, F.; and Ferraresi, R. W., 1979, *Infect. and Immun.*, v. 25 (1), 273-278

Trypanosoma cruzi, mice, enhancement of resistance against infection by the immunoregulatory agent muramyl dipeptide

Immunization

Kilejian, A., 1978, *Science* (4359), v. 201, 922-924

Plasmodium lophurae, ducklings, successful immunization with purified and characterized histidine-rich protein as antigen, use of adjuvant is not required for this protective effect and immunity can be passively transferred with serum

Immunization

Kinnamon, K. E.; and Rane, D. S., 1978, *Internat. J. Parasitol.*, v. 8 (6), 515-523

Trypanosoma rhodesiense, mice, greater than 1 year protection from lethal infections by prophylactic drugs and active immunity

Immunization

Kiurtov, N., 1977, *Vet. Med. Nauki*, v. 14 (4), 25-30

Babesia ovis, lambs, vaccination with live vaccine

Immunization

Klesius, P. H.; et al., 1979, *Clin. Immunol. and Immunopathol.*, v. 12 (2), 143-149

Eimeria ferriisi, C57BL/6 mice, effects of immunization and treatment with transfer factor, results suggest this host strain has genetically determined defect in cell-mediated immune response to this infection

Immunization

Komandarev, S.; Dragneva, N.; and Mikhov, L., 1976, *Khel'mintologiya, Sofiia*, v. 1, 62-68

Trichinella spiralis larvae, mice immunized with tissues (spleen, liver, muscles, erythrocytes, and serum) of guinea pig donors, lowest infection values observed in mice immunized with guinea pig muscles

Immunization

Kondo, K.; et al., 1976, *Kiseichugaku Zasshi*

(Japan. J. Parasitol.), v. 25 (5), 371-376
Toxocara canis, mice, resistance after sensitization and challenge with eggs, numbers of larvae recovered from various organs

Immunization

Kozar, M., 1974, *Acta Parasitol. Polon.*, v. 22 (35-44), 473-483

Fasciola hepatica, rats immunized with *Galba truncatula* or *Lymnaea tomentosa* antigens, subsequently infected with metacercariae from same or different snail species, intensity of infection, liver anatomo-pathological changes, parasite adaptation to snails discussed

Immunization

Kumar, P. S.; Kumar, R.; and Mohapatra, L. N., 1978, *Indian J. Med. Research*, v. 67, 908-917

Toxoplasma gondii, rabbits treated with 2-sulfamonyl-4,4'-diamino diphenylsulphone, determination of minimum curative dose, haemagglutinating antibody response in primary and challenge infection, immunity to challenge infection, schedule for raising high titre serum

Immunization

Langhorne, J.; and Cohen, S., 1979, *Parasitology*, v. 78 (1), 67-76

Plasmodium knowlesi in *Callithrix jacchus* investigated as possible model for immunological studies, course of infection, differential susceptibility, resistance to challenge infection

Immunization

de Lara, W. G. F., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (5), 301-305

Trypanosoma cruzi, mice, T. lewisi antigen protected against infection but antigen fractions did not

Immunization

Lee, E. H.; and Fernando, M. A., 1978, *J. Parasitol.*, v. 64 (3), 483-485

Eimeria maxima, chickens, single sporocyst infections give rise to infective oocysts and confer partial protective immunity, results suggest that sporozoites of this species are probably sexually undifferentiated

Immunization

Lehner, R. P.; and Sewell, M. M. H., 1979, *Vet. Sc. Commun.*, v. 2 (4), 337-340

Fasciola hepatica, rats, rabbits, and mice, failure of attempted immunization with metabolic antigens of *F. hepatica*

Immunization

- Lemos, M. V. F.; and Menezes, H., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 119-126
Trypanosoma cruzi, development of immune state in mice injected with immune RNA (extracted from spleen of mice immunized with avirulent PF strain), partial protective effect against virulent Y strain

Immunization

- Leutskaia, Z. K.; and Matsepa, R. L., 1973, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 23, 105-109
Ascaridia galli-immunized chickens with vitamin A deficiency, lipoprotein and glycoprotein fractions of serum

Immunization

- Leutskaia, Z. K.; and Piskunova, L. V., 1971, *Trudy Gel'mint. Lab., Akad. Nauk SSSR*, v. 22, 121-129
Ascaridia galli-immunized chickens, changes in cholesterol levels in various tissues, probable role of cholesterol, interdependently with vitamin A, in protecting host organism

Immunization

- Lewis, D.; Purnell, R. E.; and Brocklesby, D. W., 1979, *Research Vet. Sc.*, v. 26 (2), 220-222
Babesia divergens, splenectomised calves, immunization using irradiated piroplasms

Immunization

- Lie, K. J.; and Heyneman, D., 1979, *Internat. J. Parasitol.*, v. 9 (6), 533-537
Echinostoma spp., acquired resistance in 4 *Biomphalaria glabrata* strains

Immunization

- Loker, E. S., 1978, *Exper. Parasitol.*, v. 46 (2), 134-140
Schistosomatum douthitti, effect of irradiating miracidia on their infection of *Lymnaea catascopium*, results of later challenge with normal miracidia, failure to confer protection

Immunization

- Long, E.; Doenhoff, M.; and Bain, J., 1978, *J. Helminth.*, v. 52 (3), 187-191
Schistosoma mansoni, mice, development of partial resistance against homologous challenge as early as 2 weeks after primary infections of 35 to 75 cercariae, degree of protection increased to apparent maximum by 6 weeks, animals given primary infection of only 25 cercariae required longer period to acquire maximum resistance

Immunization

- Long, P. L.; and Millard, B. J., 1979, *Avian Path.*, v. 8 (3), 213-228
Eimeria spp., young chickens kept in litter pens, immunization, response to challenge with homologous and heterologous strains, effect of host age and of immunizing dose, timing of onset of immunity, longevity of immunity

Immunization

- Long, P. L.; and Millard, B. J., 1979, *Parasitology*, v. 78 (1), 41-51
Eimeria dispersa, isolation from turkeys in Britain, life cycle and reproduction, cross-protection against American strain, electrophoretic analysis of enzymes, host specificity studies, in vitro growth studies, gross pathology, pathogenicity, immunogenicity

Immunization

- Long, P. L.; and Millard, B. J., 1979, *Parasitology*, v. 79 (3), 451-457
Eimeria maxima, immunological differences between laboratory strains and field isolates effect of mixed immunizing inoculum on heterologous challenge

Immunization

- Luffau, G.; and Pery, P., 1978, *Vet. Sc. Commun.*, v. 2 (1), 11-22
nematodes, antigenic structure as related to vaccination of animals, review; *Nippostrongylus brasiliensis*, rats, vaccination using live and killed worms

Immunization

- McDougald, L. R.; Karlsson, T.; and Reid, W. M., 1979, *Avian Dis.*, v. 23 (4), 999-1005
coccidiosis, chickens (exper.), natural outbreak of infectious bursal disease (IBD) during comparison of anticoccidials for their effect on development of immunity, interaction between diseases, immunity to coccidiosis not blocked by IBD

Immunization

- McHardy, N., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (2), 201-202
Trypanosoma cruzi, mice, immunization, females were more resistant to challenge infection than males

Immunization

- McHardy, N., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 215-222
Trypanosoma cruzi, mice; immunization, effect of chemical treatment or immune serum on epimastigote vaccine

Immunization

- McHardy, N.; and Elphick, J. P., 1978, *Internat. J. Parasitol.*, v. 8 (1), 25-31
Trypanosoma cruzi, mice, cross-immunization between 5 parasite strains using freeze-thawed vaccines containing epimastigotes of 1, 2, 3, or 5 strains, all except one of single-strain vaccines gave good protection against both homologous and heterologous challenges, inclusion of more than one strain in vaccine failed to increase protection and in some instances appeared to reduce it

Immunization

- McHardy, N.; and Neal, R. A., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 409-414
Trypanosoma cruzi, mice immunized with killed antigens, comparison of challenge with blood-stream trypomastigotes from mice vs. metacyclic trypomastigotes from *Rhodnius prolixus*

Immunization

- Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 237-248
Schistosoma mansoni, rhesus monkeys, immunization, requirement for activation of both cell-mediated and humoral mechanisms

Immunization

- Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 249-254
Schistosoma mansoni, cellular and humoral immune responses in *Macaca mulatta* with multiple chronic and early primary infections

Immunization

- Maddison, S. E.; et al., [1979], J. Parasitol., v. 64 (6), 1978, 986-993
Schistosoma mansoni, mice, studies on putative adult worm-derived vaccines and adjuvants

Immunization

- Maddison, S. E.; Chandler, F. W.; and Kagan, I. G., 1978, J. Reticuloendothel. Soc., v. 24 (6), 615-628
Schistosoma mansoni, mice, rhesus monkeys, effect of pretreatment with BCG on subsequent infection

Immunization

- Mahoney, D. F.; Wright, I. G.; and Goodger, B. V., 1979, Austral. Vet. J., v. 55 (1), 10-12
Babesia bovis, calves, single vaccination by attenuated and non-attenuated parasites was sufficient to prevent clinical babesiosis under conditions of reduced tick populations

Immunization

- Marretta, J.; and Casey, F. B., 1979, J. Immunol. Methods, v. 31 (1-2), 183-185
Ascaris suum, guinea pigs, dependence of IgE and IgG₁ immune responses on inclusion of potassium in preparation of alum adjuvant

Immunization

- Mas Bakal, P.; and in't Veld, N., 1979, Ztschr. Parasitenk., v. 59 (3), 211-217
Toxoplasma strain RH, mice inoculated with irradiated toxoplasms appeared to resist challenge with virulent organisms

Immunization

- Masihi, K. N.; Brehmer, W.; and Werner, H., 1979, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 245 (3), 377-386
Toxoplasma gondii, mice, vaccination with *Toxoplasma* cell fractions alone or combined with mycobacterial glycolipids

Immunization

- Masihi, K. N.; and Werner, H., 1977, Ztschr. Parasitenk., v. 54 (3), 209-216
Toxoplasma gondii, immunization of NMRI mice against highly virulent BK strain, comparative efficacy of eleven cyst-forming strains

Immunization

- Matthews, D., 1979, Vet. Parasitol., v. 5 (2-3), 243-252
Nematodirus spp., sheep, vaccination

Immunization

- Mayrink, W.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 676
 human dermal leishmaniasis, field trial of vaccine, responses to Montenegro antigen after immunization with killed *Leishmania promastigotes*: Brazil

Immunization

- Mayrink, W.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 385-387
 American dermal leishmaniasis, humans, immunization, field trial using a vaccine containing killed promastigotes of 5 stocks of *Leishmania*, preliminary report of promising control method: Brazil

Immunization

- Mendis, K. N.; and Targett, G. A. T., 1979, Nature, London (5695), v. 277, 389-391
Plasmodium yoelii nigeriensis, mice, successful immunization against sexual stages using formalin-fixed gametes, vaccinated mice were also strongly protected against asexual erythrocytic stages

Immunization

- Menezes, H., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (5), 310-319
Trypanosoma cruzi, attempts to immunize mice with ultraviolet radiated virulent and avirulent culture forms unsuccessful, presence of live parasites seems essential for successful immunization

Immunization

- Menezes, H., 1971, Rev. Soc. Brasil. Med. Trop., v. 5 (1), 1-15
Trypanosoma cruzi, mice vaccinated with 1, 2, or 3 doses of live avirulent vaccine had better resistance and less tissue inflammatory reactions than mice vaccinated with only 1, 2, or 3 doses of killed phenolated vaccine of the same strain

Immunization

- Menezes, H., 1971, Rev. Soc. Brasil. Med. Trop., v. 5 (4), 212-233
Trypanosoma cruzi, demonstration of avirulence of PF strain in mice vaccinated and treated with immunosuppressive drugs

Immunization

- Menezes, H., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (2), 144-154
Trypanosoma cruzi, immunization of 2 adult volunteers with a live avirulent strain, possibility of active immunization without permanent infection

Immunization

- Menezes, H., 1972, Rev. Soc. Brasil. Med. Trop., v. 6 (4), 177-184
Trypanosoma cruzi, follow-up study of 2 volunteers successfully vaccinated with live avirulent PF strain of parasite

Immunization

- Menezes, H., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (2), 71-78
Trypanosoma cruzi, successful vaccination of 5 human volunteers using a live avirulent strain of parasite; clinical, parasitological, and serological tests remained negative over the 1-year testing period

Immunization

- Menezes, H., 1975, Rev. Soc. Brasil. Med. Trop., v. 9 (1), 1-9
Trypanosoma cruzi, cultivated PF strain induced immunization in mice when injected by subcutaneous route

Immunization

- Menezes, H., 1976, AMB, Rev. Ass. Med. Brasil., v. 22 (4), 111-114
Trypanosoma cruzi, PF strain, avirulence in mice, protective effect against subsequent challenge with virulent strain

Immunization

- Menezes, H., 1976, AMB, Rev. Ass. Med. Brasil., v. 22 (7), 252-255
Trypanosoma cruzi, 2 humans vaccinated with avirulent strain, 5-year follow-up

Immunization

- Mesfin, G. M.; and Bellamy, J. E. C., 1979, *Infect. and Immun.*, v. 23 (1), 108-114
Eimeria falciformis var. *pragensis*, mice, (i) effects of immune response on life cycle, (ii) relative immunizing ability of different doses of oocysts, (iii) duration of acquired resistance; possibility that cell-mediated immune mechanism is responsible for arrest in schizogony

Immunization

- Meuwissen, J. H. E. T.; Golenser, J.; and Verhave, J. P., 1978, *Israel J. Med. Sc.*, v. 14 (5), 601-605
Plasmodium berghei, rats under prophylactic treatment with various drug regimens, development of effective antiparasite immunity by natural bites of infected mosquitoes, symposium presentation

Immunization

- Michael, A. I.; Awadalla, H. N.; and Farag, H. F., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 62-64
Schistosoma haematobium-infected mice challenged with *S. mansoni*, study of granuloma development suggests presence of cross immunization

Immunization

- Michel, J. F.; Lancaster, M. B.; and Hong, C., 1979, *Parasitology*, v. 79 (1), 157-168
Ostertagia ostertagi, cattle, effect of age, previous experience of infection, pregnancy, and lactation on resistance to establishment of worms, rate at which populations are turned over, and arrested development

Immunization

- Miller, T. A., 1978, *Advances Parasitol.*, v. 16, 333-342
Ancylostoma caninum, canine hookworm vaccine, industrial development, field use, suspension of manufacture and sale, review

Immunization

- Minard, P.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (1, pt. 1), 76-86
Schistosoma mansoni, mice, immunization with cobalt-60 irradiated cercariae

Immunization

- Minard, P.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (1, pt. 1), 87-93
Schistosoma mansoni, migration pattern and lung stage recovery of nonirradiated and cobalt 60-irradiated schistosomes in non-immunized mice and of challenge schistosomes in mice immunized with cobalt 60-irradiated cercariae

Immunization

- Mitchell, G. F.; Handman, E.; and Howard, R. J., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (5), 553-559
Plasmodium berghei, *Babesia rodhaini*, mice, attempts to raise host-protective sera using variety of immunization manipulations (BCG injection, *P. yoelii* infection, others)

on

- Moser, G.; et al., 1978, *J. Protozool.*, v. 25 (1), 119-124

Plasmodium berghei, *P. knowlesi*, *P. cynomolgi*, purification of sporozoites by passage through DEAE-cellulose column, retention of ability to produce infection, to induce protective immunity, and to react with known antisera

Immunization

- Murphy, J. R., 1979, *Infect. and Immun.*, v. 24 (3), 707-712

Plasmodium berghei, mice, analysis of mechanisms of immunity generated in response to immunization with formalin-killed blood-stage parasites

Immunization

- Murphy, J. R.; and Lefford, M. J., 1978, *Infect. and Immun.*, v. 22 (3), 798-803

Plasmodium berghei, mice, induction of protracted state of immunity with formalin-killed blood parasite vaccine in combination with *Corynebacterium parvum* and/or living BCG

Immunization

- Murphy, J. R.; and Lefford, M. J., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 4-11

Plasmodium berghei, mice, successful vaccination by using formalized blood parasites

Immunization

- Murrell, K. D.; et al., 1979, *J. Parasitol.*, v. 65 (5), 829-831

Schistosoma mansoni, influence of mouse strain on induction of resistance with irradiated cercariae, no obvious or simple relationship to mouse H-2 haplotype

Immunization

- Murrell, K. D.; et al., 1979, *Exper. Parasitol.*, v. 48 (3), 415-420

Schistosoma mansoni, immunization of *Macaca fascicularis* by injection of irradiated schistosomula

Immunization

- Murrell, K. D.; Stirewalt, M. A.; and Lewis, F. A., 1979, *Exper. Parasitol.*, v. 48 (2), 265-271

Schistosoma mansoni, mice, vaccination with cryopreserved irradiated schistosomules

Immunization

- Nikolaenko, G. V.; Zharikov, I. S.; and Luchko, V. P., 1977, *Vet. Nauka--Proizvod.*, Trudy, Minsk, v. 15, 90-93

[*Paramphistomatidae*], antigen, preparation, analysis of components by disc electrophoresis with and without previous ultrasonic treatment; experimental immunization of rabbits

Immunization

- Norton, C. C.; Catchpole, J.; and Joyner, L. P., 1979, *Parasitology*, v. 79 (2), 231-248
Eimeria irresidua, *E. flavescens*, redescription, sporulation time, schizogony and gametogony, pathogenicity and oocyst production, immunogenicity, geographic distribution, prevalence

Immunization

- Omole, T. A.; and Onawunmi, O. A., 1979, *Ann. Parasitol.*, v. 54 (5), 495-506

Trypanosoma brucei-infected immunized and non-immunized rabbits maintained on diets with different levels of copper, growth and carcass performance, blood constituents

Immunization

- Oothuman, P.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 209-216
Brugia pahangi, cats, vaccination with larvae attenuated by irradiation with 10 krad cobalt 60, substantial resistance to homologous or heterologous (*B. patei*) challenge

Immunization

- Osorno, B. M.; et al., 1973, *Tecn. Pecuaria Mexico* (24), 57-63
Anaplasma marginale, cattle, University of Illinois attenuated vaccine highly effective and safe, challenged with virulent Mexican *Anaplasma* strain

Immunization

- Parre, J.; Hussar, U.; and Schattschneider, T., 1977, *Besti Pollumaj. Akad. Teadusl. Toode Kogum.* (104), 81-89
Eimeria tenella, immunization and subsequent invasion, chicks, mitotic activity of thymus lymphocytes depressed, number of degenerative cell forms in thymus raised, changes correlated with increasing host age

Immunization

- Parre, J.; and Olkonen, E., 1977, *Festi Pollumaj. Akad. Teadusl. Toode Kogum.* (104), 100-108
Eimeria tenella, *E. acervulina*, *E. brunetti*, polyvalent vaccine tested, chicks maintained in battery cages or deep litter; simultaneous zoalene treatment efficacious in deep litter maintenance

Immunization

- Pastuszko, J., 1976, *Acta Parasitol. Polon.*, v. 24 (11-19), 103-117
Eimeria tenella, chickens, immunization using X-ray attenuated oocysts

Immunization

- Pavlov, P.; and Denev, J., 1970, *Acta Parasitol. Polon.*, v. 18 (1-12), 33-43
Dictyocaulus filaria, lambs infected with 1st, 2nd, or 3rd stage larvae administered by various routes and then reinfected with infective larvae, blood counts, serum proteins, antibody production, worm elimination

Immunization

- Payares, G.; and Ercoli, N., 1978, *Exper. Parasitol.*, v. 45 (1), 1-7
Schistosoma mansoni, drug-immobilized cercariae have reduced virulence but are not dead, cercariae become avirulent only when flame cell is affected, no protection against reinfection in mice injected with immobilized cercariae of reduced virulence

Immunization

- Perez, H.; Arredondo, B.; and Machado, R., 1979, *Exper. Parasitol.*, v. 48 (1), 9-14
Leishmania mexicana, *L. tropica* major, cross immunity in mice, evidence of shared antigenic determinants which are involved in cell-mediated immune responses

Immunization

- Perrudet-Badoux, A.; and Binaghi, R. A., 1978, *J. Parasitol.*, v. 64 (1), 187-189
Trichinella spiralis, mice, immunity against newborn larvae after previous oral infection, speculations about pattern of establishment of immune state

Immunization

- Pery, P., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 275-290
 potential protective parasite antigens, evaluation by studying interactions with known binding molecules which allow rapid purification, implications for possible development of non-living vaccines, colloquium presentation

Immunization

- Pery, P.; et al., 1979, *Ann. Immunol.*, v. 130C (4), 531-540
 cytidine-5'-diphospho-choline conjugates, immunogenicity in rats, protective activity against subsequent challenge with *Nippostrongylus brasiliensis*

Immunization

- Pery, P.; and Luffau, G., 1979, *Antigens (Sela)*, v. 5, 83-172
 antigens of helminths, extensive review: immunity to helminths; pathophysiology of antigens; immunodiagnosis and immunoprevention

Immunization

- Phillips, S. M.; et al., 1978, *Cellular Immunol.*, v. 38 (2), 225-238
Schistosoma mansoni, rats, development of optimal protective immunity following natural infections and artificial immunizations

Immunization

- Phillips, S. M.; et al., 1978, *Cellular Immunol.*, v. 38 (2), 239-254
Schistosoma mansoni, rats, prerequisite mechanisms whereby natural infection or artificial immunization leads to development of optimal protective immunity, in vivo and in vitro criteria of cellular and humoral immune reactivity evaluated

Immunization

- Pipano, E.; Jeruham, I.; and Frank, M., 1979, *Trop. Animal Health and Prod.*, v. 11 (1), 13-16
Babesia bigemina, calves, pentamidine, sterilizing dose was at least 5 times as great as that needed for clinical recovery, promising agent for chemopreimmunization

Immunization

- Playfair, J. H. L.; et al., 1979, *Nature, London* (5740), v. 282, 731-734
Plasmodium yoelii- or *P. berghei*-vaccinated mice, cell-mediated immunity in liver

Immunization

- Playfair, J. H. L.; and De Souza, J. B., 1979, *Parasite Immunol.*, v. 1 (3), 197-208
Plasmodium yoelii- or *P. berghei*-vaccinated mice, immunofluorescent antibody response with particular reference to antibody class and subclass, correlation with protection, passive transfer experiments, effect of macrophage stimulation and inhibition on antibody and on protection

Immunization

- Poels, L. G.; van Niekerk, C. C.; and Franken, M. A. M., 1978, *Israel J. Med. Sc.*, v. 14 (5), 575-581
Plasmodium berghei, mice, immunization, possible role of plasmodial antigens exposed on surface of infected reticulocytes in induction of protective immunity, observations on entry of parasites into red blood cells, symposium presentation

Immunization

- Pokorna, J.; and Tomanek, J., 1976, *Acta Vet. Brno*, v. 45 (1-2), 127-132
Dictyocaulus filaria, sheep, vaccination with radiation-attenuated *D. filaria* larvae, considerable protection against challenge, safety evidenced by absence of clinical signs, gross pulmonary lesions and temporary appearance of solitary larvae in faeces

Immunization

- Powell, C. N., 1978, *Experientia*, v. 34 (11), 1450-1451
Trypanosoma rhodesiense, rats, inoculation with fraction 3, protection against challenge with *T. brucei*

Immunization

- Prowse, S. J.; et al., 1979, *Parasite Immunol.*, v. 1 (4), 277-288
Nematospiroides dubius, 7 inbred strains of mice, differences in natural resistance to primary infection and in development of resistance to challenge infection, host sex differences, IgG₁ and IgG_{2a} concentrations

Immunization

- Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (2), 237-246
Nematospiroides dubius, mice, one or more immunizing infections, development of immunity, absolute and differential cell levels in blood and peritoneum, serum concentrations of various immunoglobulin classes, results suggest that macrophages and eosinophils may play separate roles in immunity to this parasite

Immunization

- Purnell, R. E.; et al., 1978, *J. Comp. Path.*, v. 88 (3), 419-423
Babesia divergens, reactions of splenectomized calves to inoculation of infected blood taken from a calf during its reaction and carrier phases, parasite virulence, possible role in immunization

Immunization

- Purnell, R. E.; et al., 1979, *Brit. Vet. J.*, v. 135 (1), 44-49
Babesia major, intact calves, reactions to inoculation with varying numbers of infected erythrocytes, immunity to homologous challenge

Immunization

- Purnell, R. E.; Brocklesby, D. W.; and Stark, A. J., 1978, *Research Vet. Sc.*, v. 25 (3), 388-390
Babesia major, splenectomized calves, protection by inoculation of irradiated piroplasms

Immunization

- Purnell, R. E.; Lewis, D.; and Brocklesby, D. W., 1979, *Internat. J. Parasitol.*, v. 9 (1), 69-71
Babesia major, protection of intact calves against homologous challenge by injection of irradiated piroplasms

Immunization

- Radley, D. E.; et al., 1979, *Vet. Parasitol.*, v. 5 (2-3), 117-128
Theileria lawrencei, immunization of *Bos taurus* by infection (with single and multiple *Theileria* spp. isolates) and chemoprophylaxis (long-acting oxytetracycline)

Immunization

- Rajasekariah, G. R.; et al., 1979, *Parasitology*, v. 79 (3), 393-400
Fasciola hepatica, rats, mice, attempts to induce protection against infection by injection of in vitro-derived excretory/secretory products of either migrating larvae or adult worms

Immunization

- Rajasekariah, G. R.; et al., 1979, *Ztschr. Parasitenk.*, v. 58 (2), 175-180
Fasciola hepatica, unsuccessful attempts to immunise rats and mice by oral dosing with *Taenia hydatigena* eggs or by vaccination with various *T. hydatigena* antigen preparations, results suggest that mice and rats are inappropriate as models for investigating cross-immunity between these 2 species

Immunization

- Rajasekariah, G. R.; and Howell, M. J., 1978, *Exper. Parasitol.*, v. 44 (2), 233-238
Fasciola hepatica, rats, effectiveness of different developmental stages of parasite in stimulating resistance to challenge infection, all implanted stages conferred significant degree of protection with the exception of adult worms

Immunization

- Ratynska-Prill, D., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 403-415
Strongyloides papillosus, goats, primary infection and reinfections, white blood cell picture

Immunization

- Razzakov, Sh. A., 1976, *Med. Parazitol. i Parazit. Bolezni*, v. 45 (2), 148-152
echinococcal or alveococcal antigen-antibody complexes used to immunize rabbits, resulting sera with narrow specificity, useful for immunochemical analysis of echinococcal or alveococcal antigens

Immunization

- Reed, S. G.; Larson, C. L.; and Speer, C. A., 1977, *Ztschr. Parasitenk.*, v. 52 (1), 11-17
Trypanosoma cruzi, mice immunized by Freund's adjuvant or oxazolone, acute infection suppressed cell-mediated immunity to these antigens; immunization with live *T. cruzi* before infection resulted in greater than normal oxazolone sensitivity, mice survived infection; inconclusive as to whether immunosuppression due to infection is directed toward induction or toward expression of cell-mediated response

Immunization

- Reese, R. T.; et al., 1978, *Proc. National Acad. Sc.*, v. 75 (11), 5665-5668
Plasmodium falciparum, immunization of Aotus monkeys grouped according to karyotype, antigenic material obtained from parasites cultivated in vitro for over a year, protective immunity can be induced without use of complete Freund's adjuvant if sufficient antigen is used together with synthetic muramyl dipeptide

Immunization

Reuben, J. M.; Tanner, C. E.; and Portelance, V., 1979, *Infect. and Immun.*, v. 23 (3), 582-586

Echinococcus multilocularis, cotton rats, BCG cell walls are as effective in protecting against infection as the viable organism

Immunization

Reuben, J. M.; Tanner, C. E.; and Rau, M. E., 1978, *Infect. and Immun.*, v. 21 (1), 135-139

Echinococcus multilocularis in *Sigmodon hispidus*, minimum effective immunoprophylactic dose of BCG which would not induce granulomas, protection coincided with general elevation of leukocytes especially cells of the monocyte/macrophage series, results support evidence for macrophage being principal potential effector cell in hydatid disease

Immunization

Ribeiro, R. D.; and Pereira Barretto, M., 1977, *Rev. Brasil. Biol.*, v. 37 (2), 233-239

Trypanosoma cruzi, strain isolated from *Dasyprocta a. aguti* (blood), possible reservoir, infectivity to triatomines and mice, mice protected against subsequent infection by human strain: Colatina, E. S., Brasil

Immunization

Rieckmann, K. H.; Mrema, J. E.; and Campbell, G. H., 1978, *J. Parasitol.*, v. 64 (4), 750-752

Plasmodium falciparum parasites obtained from culture are capable of inducing pronounced immunity to malaria in *Aotus trivirgatus griseimembra*

Immunization

Roberts, D. W.; and Weidanz, W. P., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (1), 1-3

Plasmodium yoelii, B-cell deficient mice drug-rescued from otherwise lethal infections resisted subsequent challenge despite lack of detectable antibody

Immunization

Roberts-Thomson, I. C.; and Mitchell, G. F., 1979, *Infect. and Immun.*, v. 24 (3), 971-973

Giardia muris, mice, protective effect of injection of trophozoites in Freund complete adjuvant, host strain differences

Immunization

Rocha, G. de M.; and Peireira Barretto, M., 1977, *Rev. Brasil. Biol.*, v. 37 (2), 419-424

Trypanosoma cruzi, isolated from *Callithrix geoffroyi* (blood), possible reservoir host, pathogenic for mice, infection by monkey strain gives good resistance in mice against reinoculation with Y-strain of *T. cruzi*: Governador Valadares, MG, Brazil

Immunization

Rose, J. H., 1978, *Research Vet. Sc.*, v. 24 (1), 61-64

Ostertagia circumcincta, immunization of lambs using metabolites and/or macerated in vitro-grown larvae, some protection conferred on 3- and 6- but not 9-month-old lambs

Immunization

Rose, M. E.; et al., 1979, *Parasite Immunol.*, v. 1 (2), 125-132

Eimeria nieschulzi, *Nippostrongylus brasiliensis*, failure of nude (athymic) rats to become resistant to reinfection

Immunization

Rothwell, T. L. W., 1978, *Internat. J. Parasitol.*, v. 8 (1), 33-37

Trichostrongylus colubriformis, guinea pigs, vaccination, factors influencing immunity (different routes of administration of vaccine, age of host, variation in period between vaccination and challenge, administration of vaccine in divided as opposed to single doses, adjuvants)

Immunization

Salata, E.; Barbosa, M. A.; and Correa, F. M. A., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 211-214

Trypanosoma cruzi, antibody production in mice inoculated with irradiated vs. non irradiated culture forms of parasite

Immunization

dos Santos, R. R.; Menezes, H.; and Amato Neto, V., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (1), 47-49

Leptomonas pessoai unable to infect immunosuppressed mice, *L. pessoai* of possible use in immunization against *Trypanosoma cruzi*

Immunization

Schmidt-Ullrich, R.; and Wallach, D. F. H., 1978, *Proc. National Acad. Sc.*, v. 75 (10), 4949-4953

Plasmodium knowlesi in *Macaca mulatta*, parasite-induced antigens in membranes of parasitized erythrocytes, possible relevance to development of antimalarial vaccines

Immunization

Schmidt-Ullrich, R.; Wallach, D. F. H.; and Lightholder, J., 1979, *J. Exper. Med.*, v. 150 (1), 86-99

Plasmodium knowlesi, 2 parasite-specific antigens on surface of schizont-infected *Macaca mulatta* erythrocytes induce antibody production in immune hosts

Immunization

Scott, J. M.; et al., 1978, *Research Vet. Sc.*, v. 25 (1), 115-117

Trypanosoma congolense, zebu cattle, attempted protection using multi-stabilate vaccine given either as live or dead organisms followed by trypanocidal therapy, disappointing results

Immunization

Scott, M. T.; and Snary, D., 1979, *Nature, London* (5734), v. 282, 73-74

Trypanosoma cruzi, mice, protective immunization using cell surface glycoprotein

Immunization

Shoeb, S. M.; et al., 1976, *Egypt. J. Bilharz.*, v. 3 (2), 169-182

Schistosoma mansoni-infected mice, attempted immunization using metabolic and somatic antigens prepared from eggs, cercariae and adult worms, assessment of results based on presence of immunoglobulins and histopathologic findings; adult worm antigens gave best results with reduced worm load, delayed ovulation and reduced ova in liver tissues and in stools

Immunization

- Siddiqui, W. A.; et al., 1978, *Science* (4362), v. 201, 1237-1239
Plasmodium falciparum, effective vaccination of *Aotus trivirgatus* griseimembra using a new adjuvant, possibly safer than Freund's adjuvant

Immunization

- Siddiqui, W. A.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1277-1278
Plasmodium falciparum-vaccinated *Aotus trivirgatus* which had survived primary challenge with homologous strain were protected against subsequent challenge with heterologous strain

Immunization

- Siddiqui, W. A.; Kramer, K.; and Richard-Crum, S. M., 1978, *J. Parasitol.*, v. 64 (1), 168-169
Plasmodium falciparum, in vitro cultivation and partial purification of antigen suitable for vaccination studies in *Aotus* monkeys

Immunization

- Singh, D. K.; Jagadish, S.; and Gautam, O. P., 1979, *Am. J. Vet. Research*, v. 40 (6), 767-769
Theileria annulata, *Bos indicus* x *Bos taurus*, immunization using irradiated infective particles derived from *Hyalomma a. anatolicum*

Immunization

- Smith, M. A.; and Clegg, J. A., 1979, *Parasitology*, v. 78 (3), 311-321
Schistosoma mansoni, mice, wide variations in level of immunity to challenge infection are related to variation between different pools of cercariae rather than to variability in immune response of host

Immunization

- Smith, R. D.; et al., 1979, *Am. J. Vet. Research*, v. 40 (12), 1678-1682
babesiosis, cattle, vaccination experiments to assess immunogenicity of and protection conferred by culture-derived *Babesia bovis* antigens against tick-borne infection

Immunization

- Smith, W. D.; and Christie, M. G., 1978, *Internat. J. Parasitol.*, v. 8 (3), 219-223
Haemonchus contortus, sheep, immunization with irradiated larvae, resistance to challenge infection was associated with increased concentrations of IgG antibodies in serum as well as IgA and IgG antibodies in abomasal mucosa

Immunization

- Smith, W. D.; and Christie, M. G., 1979, *J. Comp. Path.*, v. 89 (1), 141-150
Haemonchus contortus, lambs (exper.), factors influencing degree of host resistance after immunization with attenuated larvae

Immunization

- Smrkovski, L. L.; and Strickland, G. T., 1978, *J. Immunol.*, v. 121 (4), 1257-1261
Plasmodium berghei, mice, single or multiple immunizations with BCG and/or irradiated sporozoites (varying degrees of protection), immunization with irradiated sporozoites before BCG (suppression of protective immunity against sporozoite challenge)

Immunization

- de Souza, M. do C. M., 1974, *Rev. Patol. Trop.*, v. 3 (3), 291-332
Leptomonas pessoai, antigenic relationships with other trypanosomatids, cross-protection of mice against *Trypanosoma cruzi*

Immunization

- Stankiewicz, M.; Bezubik, B.; and Sinski, E., 1971, *Acta Parasitol. Polon.*, v. 19 (19-28), 327-336
Strongyloides papillosus, rabbits, production of immunity by UV-irradiated larvae

Immunization

- Stankiewicz, M.; Sinski, E.; and Bezubik, B., 1970, *Acta Parasitol. Polon.*, v. 18 (27-41), 453-462
Strongyloides papillosus, effect of various doses of ultraviolet radiation on infective larvae

Immunization

- Stepanova, N. I.; et al., 1977, *Veterinariia, Moskva* (3), 69-70
Theileria annulata, cattle, successful testing under farm conditions of live vaccine prepared from cell culture of parasite

Immunization

- Stockdale, P. H. G.; and Yates, W. D. G., 1978, *Vet. Parasitol.*, v. 4 (3), 209-214
Eimeria zuernii, calves (exper.), successful chemotherapy with amprolium or monensin, resistance to reinfection after chemotherapy

Immunization

- Stromberg, B. E., 1979, *Internat. J. Parasitol.*, v. 9 (4), 307-311
Ascaris suum, protective antigen from developing larvae, isolation and partial characterization

Immunization

- Sturrock, R. F.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 251-261
Schistosoma mansoni in *Papio anubis*, development of resistance to homologous challenge, correlation of in vitro tests (anti-schistosoma antibody and peripheral leucocyte cytotoxic activity) with in vivo immune status

Immunization

- Swietlikowski, M., 1974, *Acta Parasitol. Polon.*, v. 22 (35-44), 459-471
Dictyocaulus viviparus, calves, four age groups, double immunization, challenged one month later, course of defence reaction

Immunization

- Swietlikowski, M., 1975, *Acta Parasitol. Polon.*, v. 23 (1-11), 147-157
Dictyocaulus filaria did not develop to sexual maturity in calves but in some circumstances provided weak resistance to challenge with *D. viviparus*, 1000 larvae given to calves under 3 months of age provoked symptoms of clinical dictyocaulosis, serological findings indicate differences in antigen structure of the 2 species

Immunization

- Swietlikowski, M.; and Moczon, T., 1978, *Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol.*, v. 26 (8), 549-554
Hymenolepis diminuta, lack of protective immunity in rats following immunization with increasing doses of oncospheres, cysticeroids, and mature *Hymenolepis homogenates*

Immunization

- Takhar, B. S.; and Farrell, D. J., 1979, Brit. Poultry Sc., v. 20 (2), 213-224
Eimeria acervulina, chickens, single infection provides protection against adverse effects on energy and nitrogen metabolism of further similar infection

Immunization

- Taylor, M. G.; et al., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 291-305
 schistosomiasis, possibility of irradiated vaccines, colloquium presentation

Immunization

- Taylor, M. G.; et al., 1979, J. Helminth., v. 53 (1), 1-5
Schistosoma bovis, sheep, immunization using irradiated schistosomular vaccine

Immunization

- Terziiski, A.; and Dragneva, N., 1976, Khel-mintologiya, Sofia, v. 1, 99-104
Ascaris suum, guinea pigs, immunization per os and parenterally, comparison of host response, results suggest that not serum antibodies but other antibodies (IgA) or other mechanisms play essential role in oral immunization with *Ascaris* antigen

Immunization

- Thompson, K. C.; et al., 1978, Trop. Animal Health and Prod., v. 10 (2), 75-81
Anaplasma marginale, *Babesia argentina*, *B. bigemina*, cattle under tropical conditions, immunization with virulent organisms followed by drug therapy (ganaseg; gloxazone; emicina) vs. chemoprophylaxis (imidocarb); tick and gastrointestinal parasite control without haemoparasitic control had advantage over no control system at all

Immunization

- Thompson, K. C.; et al., 1978, Trop. Animal Health and Prod., v. 10 (3), 141-144
Anaplasma marginale, *Babesia bigemina*, *B. argentina* (bovis), immunization and chemoprophylaxis of *Bos taurus* calves and subsequent challenge with *Boophilus microplus*, economic gain estimated: Colombia

Immunization

- Thompson, K. C.; Todorovic, R. A.; and Hidalgo, R. J., 1978, Research Vet. Sc., v. 24 (2), 234-237
Babesia bigemina, immune response of calves to acute and chronic blood- and tick-borne infections with 4 stabilates, reduced immune response to homologous challenge but marked response to heterologous challenge indicated antigenic differences between isolates

Immunization

- Thong, Y. H.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 238-240
Naegleria fowleri, mice immunized with live parasites by intraperitoneal injection were found to be more resistant to subsequent intranasal challenge

Immunization

- Thong, Y. H.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 650-652
Naegleria fowleri, mice immunized with live organisms acquire resistance to challenge, protective immunity can be transferred by immune serum but not by immune cells, mechanism of this immunity unknown

Immunization

- Todorovic, R. A.; Gonzalez, E. F.; and Garcia, O., 1979, Tropenmed. u. Parasitol., v. 30 (1), 43-52
 anaplasmosis, babesiosis, cattle, immunization evaluated under field conditions, study indicates significant reduction in deaths and production losses and economic benefits for livestock producers when animals are vaccinated: Cauca River Valley, Colombia

Immunization

- Todorovic, R.; Gonzalez, E.; and Lopez, G., 1978, Tropenmed. u. Parasitol., v. 29 (2), 210-214
Anaplasma marginale, *Babesia* spp., calves, immunization, cryo-preserved vaccines, effects of dose, inoculation route, time, and temperature

Immunization

- Tomanek, J., 1971, Folia Parasitol., v. 18 (2), 183-185
Dictyocaulus viviparus, guinea pigs, degree of immunity induced by subcutaneous immunization with X-ray-attenuated larvae

Immunization

- Tomanek, J.; and Pokorna, J., 1977, Vet. Med., Praha, v. 50, v. 22 (5), 311-320
Dictyocaulus filaria, lambs, effective protection by vaccination with *D. filaria* irradiated larvae

Immunization

- Tromba, F. G., 1978, J. Parasitol., v. 64 (4), 651-656
Ascaris suum, pigs, immunization using ultra-violet irradiated eggs

Immunization

- Tronchin, G.; et al., 1979, J. Parasitol., v. 65 (5), 685-691
Trichinella spiralis, infected mice, mice immunized with metabolic antigens, mice immunized and then infected, kinetics of intestinal cell response (mast cells, leukocytes, polymorphonuclear eosinophils)

Immunization

- Tsang, C. L., 1977, J. Agric. and Forest., v. 26, 1-11
Eimeria tenella, chickens, immunization using oocysts attenuated by chilling method

Immunization

- Uakhovitchai, V.; Techasoponmani, R.; and Sirisinha, S., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 486-493
Angiostrongylus cantonensis, rats, immunization with excretory/secretory antigens of male vs. female worms, effect on subsequent infection by infective 3rd stage larvae

Immunization

- Uilenberg, G.; et al., 1977, Tropenmed. u. Parasitol., v. 28 (4), 499-506
Theileria parva, *T. mutans*, cattle, immunization, large-scale field trial: Tanzania

Immunization

- Upadhyay, A. N.; and Ahluwalia, S. S., 1976, Indian Vet. J., v. 53 (12), 972-973
 mixed coccidial infection, pig, first infection did not confer any immunity, pig became resistant to challenge after second infection

Immunization

Urquhart, G. M., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 263-273

irradiated vaccines for helminths, evaluation of reasons for success of Dictol and failure of attempts to develop other vaccines, colloquium presentation

Immunization

Van Regenmortel, M. H. V.; Gill, K.; and Fazerley, G., 1978, Exper. Parasitol., v. 40 (2), 323-329

Trypanosoma equiperdum, rabbits, active immunization with actinomycin D-inactivated parasites, complete protection from challenge inoculation of same stabilate, neutralization of trypanosomes with serum components from immunized rabbits

Immunization

Verhave, J. P., 1978, Israel J. Med. Sc., v. 14 (5), 599-600

malaria, introductory remarks on immunization with sporozoites, symposium presentation

Immunization

Verhave, J. P.; Meuwissen, J. H. E. T.; and Golvers, J., 1978, Israel J. Med. Sc., v. 14 (5), 611-616

arguments for the involvement of cell-mediated immunity in antiparasite protection, symposium presentation

Immunization

Viyanant, V.; and Jones, A. W., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 79-85

Trypanosoma lewisi, surface membrane antigen, isolation and characterization, protection of immunized rats against challenge

Immunization

Vizcaino, O.; et al., 1978, Am. J. Vet. Research, v. 39 (2), 229-233

Anaplasma marginale, response of calves inoculated with 3 different doses of attenuated A. marginale vaccine and subsequently challenged with a virulent strain; effects of field challenge exposure in calves inoculated with Anaplasma vaccine and preimmunized with both Babesia bigemina and B. argentina: Colombia

Immunization

Voller, A., 1978, New Trends and Develop. Vaccines, 299-309

schistosomiasis, trypanosomiasis, malaria, potential and progress towards vaccines, review

Immunization

Waki, S., 1976, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 25 (6), 441-446

Plasmodium berghei, mice, protective immunity induced by repeated infections followed by radical chemotherapy with sulfamonomethoxine

Immunization

Walter, P. D.; et al., 1979, Exper. Parasitol., v. 47 (3), 356-368

Pneumocystis carinii, new method of separating parasites from infected rat, human, and mouse lungs, adaptation of method for quantitation of parasite in lung tissue and for immunization of rabbits

Immunization

Weiss, M. L., 1978, Israel J. Med. Sc., v. 14 (5), 554-556

Plasmodium berghei, infectivity and immunogenicity, symposium presentation

Immunization

Werner, H., 1977, Zentralbl. Bakteriologie, 1. Abt. Orig., Reihe A, v. 238 (1), 122-127

Toxoplasma gondii, mice, incidence in peripheral blood following primary and secondary infections, infection immunity does not protect against reinfection

Immunization

Wikerhauser, T.; et al., 1978, Acta Parasitol. Lugoslavica, v. 9 (2), 51-56

Taenia saginata, calves, immunization using a metabolic, parasite-free vaccine, no evidence of immunizing capacity

Immunization

Yoshimura, K.; et al., 1979, Japan. J. Vet. Sc., v. 41 (3), 245-259

Angiostrongylus cantonensis in 8 strains of inbred rats, occurrence of acquired resistance, kinetics of humoral immune response (reaginic and indirect hemagglutination antibody response)

Immunization

Yoshimura, K.; Aiba, H.; and Oya, H., 1979, Internat. J. Parasitol., v. 9 (2), 97-103

Angiostrongylus cantonensis, simple procedure for transplantation of young adult worms into rat pulmonary vessels, acquired resistance conferred by infection with larvae compared with that following transplantation of adults, time course development of antibodies (reaginic, hemagglutinating, and precipitating)

Immunization

Zaraza, H.; and Kuttler, K. L., 1976, Rev. Inst. Colomb. Agropec., v. 11 (4), 363-371

Anaplasma marginale, calves, comparative immunization systems using attenuated organism, a killed adjuvant, and virulent A. marginale

Immunodiffusion. See Immunity, Precipitation.

Immunoelectrophoresis. See Immunity, Precipitation.

Immunofluorescence

Adam, K. M. G.; and Blewett, D. A., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 417-428

Babesia divergens, cattle, serological survey using indirect fluorescent antibody test, occurrence of antibody in the population and distribution of infected herds: Scotland

Immunofluorescence

Allen, J. R.; Khalil, H. M.; and Graham, J. E., 1979, Immunology, v. 38 (3), 467-472

Dermacentor andersoni, guinea pigs undergoing primary and secondary infestations, immunofluorescent localization of tick salivary gland antigens, IgG, and complement in skin

Immunofluorescence

Amato Neto, V.; et al., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (4), 264-272

Toxoplasma gondii, human lymphatic infections, immunofluorescence tests and Sabin-Feldman dye tests compared

Immunofluorescence

Amato Neto, V.; et al., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (2), 83-86

human malarías, preliminary investigation of merits of testing blood donors for evidence of infection using the indirect immunofluorescence test

Immunofluorescence

Amato Neto, V.; et al., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (5), 277-282

Toxoplasma gondii, humans, agglutination test compared with indirect immunofluorescence, agglutination test not satisfactory

Immunofluorescence

Amato Neto, V.; Camargo, M. E.; and da Costa, A. C. T., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (3), 135-139

test for anti-*Toxoplasma gondii* antibodies in persons with various non-parasitic diseases, Sabin-Feldman dye test and immunofluorescence compared using serum vs. ascitic fluid samples

Immunofluorescence

Amato Neto, V.; da Silva, L. J.; and Camargo, M. E., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 99-102

serodiagnostic tests for Chagas disease performed on sera of patients with visceral leishmaniasis gave positive results with several immunologic methods, indicates "group-reactions" within Trypanosomatidae

Immunofluorescence

Ambroise-Thomas, P., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 497-504

filariasis, humans, diagnosis, immunofluorescence, review

Immunofluorescence

Ambroise-Thomas, P., 1977, Tech. Immunofluoresc. et React. Immuno-enzymat., 271-276

immunofluorescence for diagnosis of human parasitic diseases, review with specific techniques for *Fasciola hepatica*

Immunofluorescence

Ambroise-Thomas, P., 1978, Israel J. Med. Sc., v. 14 (6), 690-691

malaria, diagnosis and seroepidemiologic study by immunofluorescence, indirect hemagglutination, and immunoenzymology, brief symposium presentation

Immunofluorescence

Ambroise-Thomas, P.; Desgeorges, P. T.; and Monget, D., 1978, Bull. World Health Organ., v. 56 (5), 797-804

Toxoplasma gondii, *Entamoeba histolytica*, *Trichinella spiralis*, *Echinococcus granulosus*, human, diagnosis by enzyme-linked immunosorbent assay with a modified micro-method, parallel study by comparative serological tests

Immunofluorescence

Ambroise-Thomas, P.; Simon, J.; and Bayard, M., 1978, Biomedicine Express, v. 29 (7), 245-248

Toxoplasma gondii, human, indirect hemagglutination test using whole antigen for serodiagnosis and for determining stage of disease, comparison with indirect immunofluorescence

Immunofluorescence

Andrade, Z. A.; and Sadigursky, M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 316-318

Schistosoma mansoni, immunofluorescence studies of schistosome structures which share determinants with circulating schistosome antigens (CSA), Ig class of antibodies in patients' serum that attach to sites where CSA determinants are found

Immunofluorescence

Andre, J.; and Filippi, R., 1978, Rev. Inst. Pasteur Lyon, v. 11 (1), 65-87

Toxoplasma gondii, antibody prevalence survey in pregnant women during diagnostic work-ups prior to delivery, immunofluorescence and Sabin-Feldman dye tests both of diagnostic value but direct agglutination test gave false positive reactions

Immunofluorescence

de Araujo, F. G., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (2), 105-111

Toxoplasma gondii, survey of serum samples from blood donors, Sabin-Feldman dye test and indirect immunofluorescence tests compared; *Sarcocystis* sp. in local animals may have some bearing on test results: Belo Horizonte, Brazil

Immunofluorescence

Araujo, F. G.; and Nunes, R. M. B., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (6), 315-317

Trypanosoma cruzi, 3 strains with differences in antigenic structure, strain F1 always yielded lower titers in immunofluorescent test, use of pool of several strains recommended

Immunofluorescence

Arru, E.; Cosseddu, A. M.; and Tarantini, S., 1978, Clin. Vet., Milano, v. 101 (4), 195-200

Sarcosporidia, ovines, swine, indirect immunofluorescence technique compared with post mortem microscopic studies, no constant correspondence of results, not practical diagnostic tool

Immunofluorescence

Asaishi, K., 1974, Sapporo Igaku Zasshi (Sapporo Med. J.), v. 43 (2), 104-120

Anisakis larvae, analysis of cuticular antigen, application of fluorescent antibody test to histological diagnosis of chronic infection

Immunofluorescence

Barbosa, W.; et al., 1973, Rev. Patol. Trop., v. 2 (4), 377-386

human visceral leishmaniasis, diagnosis by counterimmunofluorescence, antigens of *Leishmania donovani*, *L. brasiliensis* and *Leptomonas pessoai* compared

Immunofluorescence

Barbosa, W.; et al., 1974, Rev. Patol. Trop., v. 3 (3), 263-268

Trypanosoma cruzi, diagnosis, sera from persons known to be infected, comparison of test results using counterimmunoelectrophoresis, hemagglutination, fluorescent antibody and complement fixation

Immunofluorescence

Barbosa, W.; Rombert, P. C.; and da Rocha, R. P. M., 1972, Rev. Patol. Trop., v. 1 (1), 93-106

human filariasis, diagnosis by indirect immunofluorescence using fragments of adult *Onchocerca volvulus* as antigen, comparison with results in normal controls

Immunofluorescence

- Baruffa, G.; and Alcantara Filho, A., 1973, *Rev. Soc. Brasil. Med. Trop.*, v. 7 (5), 329-332
Trypanosoma cruzi, human acute and chronic forms, comparison of diagnosis by latex agglutination and by immunofluorescence

Immunofluorescence

- Baruzzi, R. G., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (2), 93-104
Toxoplasma gondii, epidemiologic survey of indians of the Upper Xingu River (indirect immunofluorescence), comparison with 2 other surveys made in different geographic areas and in populations of more advanced areas of civilization (Sabin-Feldman dye test), little significant differences: Brazil

Immunofluorescence

- Beach, P. G., 1979, *J. Infect. Dis.*, v. 140 (5), 780-783
Toxoplasma gondii antibody prevalence in pregnant women, indirect haemagglutination test acceptable for mass screening, comparison with methylene blue dye test and indirect fluorescent antibody test: Oregon

Immunofluorescence

- Belozero, S. N.; and Shekhovtsov, N. V., 1978, *Veterinariia, Moskva* (2), 61-64
 trichinosis, swine (exper.), new variant of immunofluorescence reaction for diagnosis using lyophilized larval antigen

Immunofluorescence

- Benex, J., 1977, *Tech. Immunofluoresc. et React. Immuno-enzymat.*, 495-502
 schistosomes, immunofluorescence as technique for studying antigenic relationships between parasite and host, review

Immunofluorescence

- Besson, P.; et al., 1976, *Rev. Franc. Transfus. et Immuno-Hematol.*, v. 19 (2), 369-373
 human malaria, case reports of infection from blood transfusions, recommendations that the immunofluorescence test be used along with other methods of screening potential donors

Immunofluorescence

- Bidwell, D. E.; et al., 1978, *Vet. Rec.*, v. 103 (20), 446-449
Babesia divergens, *B. major*, cattle (exper.), serological diagnosis, comparison between microplate enzyme linked immunosorbent assay, indirect fluorescent antibody, and complement fixation tests, ELISA may be preferable

Immunofluorescence

- Blewett, D. A.; and Adam, K. M. G., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (5), 405-415
Babesia divergens, cattle, serological survey using indirect fluorescent antibody test, critical assessment of sampling and testing methods: Scotland

Immunofluorescence

- Bordjochki, A.; et al., 1978, *Bull. Acad. Vet. France*, n.s., v. 51 (2), 189-195
Sarcocystis fusiformis, *S. tenella*, *S. miescheriana*, rabbits (exper.), diagnostic value of complement fixation and fluorescent antibody tests

Immunofluorescence

- Bretting, H.; and Schottelius, J., 1978, *Ztschr. Parasitenk.*, v. 57 (3), 213-219
Trypanosoma cruzi and *T. cruzi*-like strains, differentiation from *T. rangeli* but not from *T. conorhini* by microimmunofluorescence using lectin of sponge (*Aaptos papillata*)

Immunofluorescence

- Bruijning, C. F. A., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 473-487
 helminthic infections, human, diagnosis by immunofluorescence, general review

Immunofluorescence

- Bulajic, M.; et al., 1977, *Srpski Arhiv Tse-lok. Lekar.*, v. 105 (7-8), 657-663
Fasciola hepatica, human, immunodiagnosis, comparative study of complement fixation, double diffusion precipitation, and indirect fluorescent antibody tests

Immunofluorescence

- Cacciapuoti, B.; et al., 1979, *Boll. Ist. Sieroterap. Milanese*, v. 58 (2), 148-157
 toxoplasmosis, human, diagnosis, complement fixation reaction, evaluation of different antigens and methods, comparison with dye test and indirect immunofluorescence

Immunofluorescence

- Calderon, C.; and Atias, A., 1974, *Sangre, Barcelona*, v. 19 (3), 253-258
Toxoplasma gondii, human lymphatic infection, diagnosis by indirect immunofluorescence, case reports: Chile

Immunofluorescence

- Calderon, C.; Thiermann, E.; and Apt, W., 1972, *Rev. Med. Chile*, v. 100 (4), 414-416
Toxoplasma gondii, diagnosis, immunofluorescence

Immunofluorescence

- Camargo, M. E., 1975, *AMB, Rev. Ass. Med. Brasil.*, v. 21 (11), 341-344
Toxoplasma gondii, pregnant women, sero-diagnosis, review

Immunofluorescence

- Camargo, M. E.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (4), 254-260
Trypanosoma cruzi, human, comparative serologic diagnosis, complement fixation, immunofluorescence, hemagglutination, flocculation tests

Immunofluorescence

- Camargo, M. E.; et al., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (3), 152-160
Toxoplasma gondii, human congenital, significance of different diagnostic tests in screening for inapparent infections, serologic tests and serologic patterns in mothers and children studied

Immunofluorescence

- Camargo, M. E.; and Amato Neto, V., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (4), 200-202
Trypanosoma cruzi, IgM antibodies as evidence of recent infection, immunofluorescent technique, epidemiological applications

Immunofluorescence

- Camargo, M. E.; Hoshino-Shimizu, S.; and Umezawa, E. S., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (4), 230-235
Trypanosoma cruzi, I.M.T.-Chagas flocculation test evaluated, compared with complement fixation, hemagglutination and immunofluorescence test results

Immunofluorescence

- Camargo, M. E.; and Leser, P. G., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 227-238
 toxoplasmosis, humans with recently acquired infections, transitional serological patterns and evolution of antibodies studied comparing hemagglutination, complement fixation and immunofluorescence tests

Immunofluorescence

- Camargo, M. E.; Leser, P. G.; and Leser, W. S. P., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 215-226
Toxoplasma gondii, comparative study of hemagglutination, complement fixation, IgG- and IgM-immunofluorescence tests on human serum samples

Immunofluorescence

- Camargo, M. E.; Leser, P. G.; and Rocca, A., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (5), 310-313
Toxoplasma gondii, human, IgM fluorescence test, false positive results caused by rheumatoid factor; heat-aggregated gamma globulin added to sera avoids false positives

Immunofluorescence

- Cerisola, J. A.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (3), 162-166
Trypanosoma cruzi, new amastigote antigen superior to antigen from epimastigotes, indirect immunofluorescence test

Immunofluorescence

- Cerisola, J. A.; Alvarez, M.; and De Rissio, A. M., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (6), 403-411
Trypanosoma cruzi, human, acute disease, 2-year longitudinal study, comparison of results of complement fixation, hemagglutination and fluorescent antibody tests, with and without Bay 2502 treatment

Immunofluorescence

- Chen, S. N.; et al., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (6), 324-327
Toxoplasma gondii, prevalence in cord blood specimens surveyed using indirect hemagglutination test, antibodies confirmed in sera by the indirect fluorescent antibody test: Taiwan

Immunofluorescence

- Chen, S. N.; and Suzuki, T., 1974, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 73 (7), 393-400
Angiostrongylus cantonensis, rats and rabbits (both exper.), fluorescent antibody vs. indirect hemagglutination test for diagnosis

Immunofluorescence

- Chiari, C. de A.; Magalhaes, P. A.; and Mayrink, W., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (5), 304-309
Leishmania braziliensis, variations of fluorescent antibody titers in persons with recent cutaneous lesions

Immunofluorescence

- Chiari, C. de A.; Mayrink, W.; and Magalhaes, P. A., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (5), 298-303
 American cutaneous leishmaniasis, humans, N-methylglucamine antimonate therapy evaluated by indirect fluorescent antibody test

Immunofluorescence

- Chisholm, E. S.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (1, pt. 1), 14-19
Babesia microti, human, diagnosis, indirect immunofluorescent antibody test is sensitive, specific, and reproducible; cross-reactivity did occur with other *Babesia* spp. and with *Plasmodium* spp.

Immunofluorescence

- Cimerman, B.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 113-116
Toxoplasma gondii, human, diagnosis, evaluation of direct agglutination test, less useful than the indirect fluorescent antibody test

Immunofluorescence

- Collins, W. E.; and Skinner, J. C., 1979, J. Parasitol., v. 65 (5), 827-829
Onchocerca volvulus, formalin-fixed sections of adult worms in nodules used as antigen in fluorescent antibody test, sera from endemic and nonendemic areas, different patient age groups: Ghana; Upper Volta

Immunofluorescence

- Corradi, J. C., 1979, Acta Bioquim. Clin. Latinoam., v. 13 (3), 277-281
 sera positive for Chagas-Mazza or toxoplasmosis or both, adsorption with 3 lines of *Trypanosoma cruzi*, immunofluorescent titers, no cross reactions between T. cruzi and toxoplasmosis: Provincia de San Luis

Immunofluorescence

- Correa, F. M. A.; Salata, E.; and Oliveira, M. R., 1978, Arq. Inst. Biol., S. Paulo, v. 45 (4), 209-212
Toxoplasma gondii, swine, indirect immunofluorescence diagnosis: State of Sao Paulo, Brazil

Immunofluorescence

- Correia, M. de A.; and Barbosa, W., 1974, Rev. Patol. Trop., v. 3 (2), 171-189
 sera from humans infected with visceral or tegumentary leishmaniasis studied by electrophoresis using heterologous and homologous antigens; homologous antigens were more specific and detected higher titers, false positive reactions occurred only with *Leishmania donovani*

Immunofluorescence

- Coudert, J.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 525-533
Strongyloides stercoralis, humans, diagnosis, fecal examination, immunofluorescence, clinical aspects, review

Immunofluorescence

- Cox, J. C.; and Gallichio, H. A., 1978, Research Vet. Sc., v. 24 (2), 260-261
Encephalitozoon cuniculi in rabbits, histopathology, value of serology (indirect immunofluorescence) in early diagnosis

Immunofluorescence

- Danforth, H. D.; Orjih, A. U.; and Nussenzweig, R. S., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1123-1125
Plasmodium berghei, indirect immunofluorescent staining of exoerythrocytic schizonts in rat liver sections exposed to antisporeozoite or anti-red blood cell serum, possible use in detecting early developmental stages in cell culture

Immunofluorescence

- De Carli, G. A.; and Guerrero, J., 1975, *Rev. Microbiol.*, S. Paulo, v. 6 (3), 55-58
Trichomonas suis, T. foetus, study of antigenic relationships using indirect immunofluorescence, results suggested presence of antigens that were common to both species

Immunofluorescence

- Deelder, A. M.; Van Dalen, D. P.; and Van Egmond, J. G., 1978, *Exper. Parasitol.*, v. 44 (2), 216-224
Schistosoma mansoni, microfluorometric determination (using DASS system) of circulating anodic antigen and antigen-antibody complexes in infected hamster serum

Immunofluorescence

- Dias, L. C. de S.; et al., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (1), 37-44
Schistosoma mansoni, human, immunofluorescence and hemagglutination techniques used in serologic surveys, results compared with fecal egg counts, possible application of serologic tests to epidemiological surveys

Immunofluorescence

- Diesfeld, H. J.; and Kirsten, C., 1978, *Tropenmed. u. Parasitol.*, v. 29 (1), 27-32
Dipetalonema viteae eggs, egg membranes, metabolic products, and hatched larvae from uterus, examination of antigenic activity against sera from *Wuchereria bancrofti* and onchocerciasis patients, indirect immunofluorescence test

Immunofluorescence

- Diesfeld, H. J.; and Kirsten, C., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (5), 533-535
Dipetalonema viteae, antigenic activity in adult worms in the indirect fluorescent antibody test against sera of filariasis patients, search for a 'pure' antigen

Immunofluorescence

- Doby, J. M.; Hocquet, P.; and Kombila-Favry, M., 1978, *Rev. Franc. Gynec. et Obst.*, v. 73 (6), 453-456
toxoplasmosis, immunoserologic diagnosis in pregnant women, responsibilities of physicians and diagnostic laboratories in providing accurate diagnostic information

Immunofluorescence

- Dunan, S., 1978, *Rec. Med. Vet.*, v. 154 (3), 251-261
leishmaniasis, human and canine, immunologic diagnosis, changes in antibody levels during course of disease, interpretation of results

Immunofluorescence

- Durham, T. M.; and Colvin, H. M., 1978, *J. Clin. Microbiol.*, v. 7 (3), 255-260
Toxoplasma gondii, premarket evaluation of commercial toxoplasmosis indirect fluorescent antibody reagents, only 49% of all of products tested met Center for Disease Control requirements

Immunofluorescence

- Duvallet, G.; and Saliou, P., 1976, *Rev. Inf. Arm. Afrique Noire* (49), 13-19
Trypanosoma gambiense, human, diagnosis by immunofluorescence, brief clinical review

Immunofluorescence

- Dwivedi, S. K.; and Gautam, O. P., 1979, *Indian J. Animal Sc.*, v. 49 (8), 664-666
Babesia bigemina, calves (exper.), diagnosis, indirect fluorescent antibody test

Immunofluorescence

- Dymowska, Z., 1974, *Przegl. Epidemiol.*, v. 28 (3), 375-380
human toxoplasmosis, evaluation of Sabin-Feldman dye test, immunofluorescence and other immunobiological tests used in diagnosis

Immunofluorescence

- Edrissian, G. H.; and Darabian, P., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 289-292
leishmaniasis, human cutaneous and visceral infections, comparison of enzyme-linked immunosorbent assay and indirect fluorescent antibody test using *Leishmania donovani* antigens in diagnosis

Immunofluorescence

- Ferreira, A. W.; Camargo, M. E.; and Nakahara, O. S., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (6), 341-345
Schistosoma mansoni, immuno-peroxidase-antiglobulin diagnostic test compared with standard immunofluorescence and hemagglutination tests

Immunofluorescence

- Flentje, B.; Buchwalder, R.; and Hiepe, T., 1978, *Arch. Exper. Vet.-Med.*, v. 32 (2), 205-212
Taeniarrhynchus saginatus, cattle (exper.), intravital diagnosis by means of immunofluorescent antibody technique, economically superior to other immunodiagnostic procedures

Immunofluorescence

- Florez, G.; Sanchez, C.; and Albala, F., 1976, *Rev. Clin. Espan.*, v. 141 (5), 431-433
human echinococcosis, diagnosis using immunofluorescence

Immunofluorescence

- Franco, H. M.; Rombert, P. C.; and Martins, M. A., 1972, *Rev. Patol. Trop.*, v. 1 (4), 431-438
S[chistosoma] mansoni, indirect fluorescent antibody test using fragments of fresh adult parasites, diagnostic evaluation

Immunofluorescence

- Gannon, J., 1978, *Lab. Animals*, v. 12 (3), 125-127
Encephalitozoon cuniculi, rabbits (nat. and exper.), diagnosis, immunoperoxidase test, comparison with immunofluorescence test

Immunofluorescence

Gentilini, M.; et al., 1976, Rev. Franc. Transfus. et Immuno-Hematol., v. 19 (2), 363-367
human malaras, systematic screening of all potential blood donors recommended using the indirect immunofluorescence test and Plasmodium berghei antigen

Immunofluorescence

Gonzalez, E. F.; Long, R. F.; and Todorovic, R. A., 1978, Am. J. Vet. Research, v. 39 (9), 1538-1541
Anaplasma marginale, cattle, diagnosis, comparisons of complement-fixation, indirect fluorescent antibody, and card agglutination tests

Immunofluorescence

Gradkovskaia, N. V.; Gracheva, L. I.; and Shemanova, G. F., 1978, Zhurnal Mikrobiol., Epidemiol. i Immunol. (8), 106-109
toxoplasmosis, human, diagnosis, passive hemagglutination test, antigen preparation, comparison with immunofluorescence and complement fixation tests

Immunofluorescence

Giffin, B. R.; and Davis, E. M., 1978, J. Fish. Research Bd. Canada, v. 35 (9), 1186-1190
Myxosoma cerebralis-infected Salmo gairdneri, detection of circulating antibodies with indirect fluorescent antibody test

Immunofluorescence

Grove, D. I.; and Davis, R. S., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 508-513
Wuchereria bancrofti, Brugia malayi, human, serodiagnosis, indirect immunofluorescence and agglutination using B. malayi as antigen, measurement of antibodies to adult worms is useful indicator of infection while microfilarial antibodies are correlated with disease: Philippines

Immunofluorescence

Guimaraes, M. C. S.; Giovannini, V. L.; and Camargo, M. E., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (3), 145-148
mucocutaneous leishmaniasis immunofluorescence test using in vitro grown strain of L[eishmania] braziliensis, antigen standardization, cross reactions with Chagas disease and kala-azar sera

Immunofluorescence

Guimaraes, M. C. S.; Ribeiro, M. T.; and Camargo, M. E., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 182-190
Trypanosoma cruzi, glycoprotein complex extracted from epimastigotes capable of inhibiting immunofluorescence and hemagglutination tests performed with human sera and forming complement fixing immune complexes with both human and hyperimmune sera

Immunofluorescence

Hall, C. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 849-852
Plasmodium falciparum, use of cultured parasites as antigen in standard indirect fluorescent antibody test

Immunofluorescence

Hansen, R.; de Silva, S.; and Strickland, G. T., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 574-578
Plasmodium berghei, IgM and IgG antiparasite antibodies in mice immunized with irradiation-attenuated sporozoites, detection by indirect fluorescent antibody test, correlation with protection, some cross-reaction with blood stage antigens but test should still prove useful

Immunofluorescence

Hassan, F.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (1), 3-7
schistosomiasis, humans, enzyme linked immunosorbent assay (ELISA), immunodiagnosis, compared with indirect fluorescent antibody and indirect hemagglutination tests

Immunofluorescence

Hedge, E. C.; Moody, A. H.; and Ridley, D. S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 445 [Letter]
Leishmania donovani, human, screening of sera for kala-azar using Crithidia sp. as antigen in indirect fluorescent antibody test, some positive reactions with L. tropica, cross-reactions at low titer with Chagas' disease and African trypanosomiasis

Immunofluorescence

Hess, U.; Eckert, J.; and Frohlich, A., 1974, Schweiz. Med. Wchnschr., v. 104 (24), 853-859
cystic and alveolar echinococcosis, human, sensitivities of complement-fixation, passive hemagglutination (PH), and indirect fluorescent-antibody (IF) tests compared, simultaneous use of the PH and IF tests recommended

Immunofluorescence

Hinz, E., 1978, Zentralbl. Bakteriologie, 1. Abt. Orig., Reihe A, v. 242 (2), 268-272
Echinococcus multilocularis, HH vs. S strain, mice treated with fenbendazole as emulsion or in feed, indirect fluorescent antibody titers, compared with untreated mice

Immunofluorescence

Hinz, E.; and Kirsten, C., 1978, Tropenmed. u. Parasitol., v. 29 (3), 278-280
Echinococcus multilocularis, indirect immunofluorescent antibody test with paraffin-embedded histological sections as antigen, specificity and sensitivity in mouse model

Immunofluorescence

Hoff, R.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 247-250
Trypanosoma cruzi, human, congenital Chagas' disease, clinical, pathological, and epidemiological studies on pair of twins, immunofluorescence tests on cord sera were negative for IgM antibodies

Immunofluorescence

Hoff, R.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (3), 461-466
Trypanosoma cruzi, rural population, age-specific prevalence rates of parasitemia (detected by blood cultures and xenodiagnosis) vs. seroreactivity (measured by complement fixation and indirect immunofluorescence tests): northeast Brazil

Immunofluorescence

- Hoshino, S.; Camargo, M. E.; and da Silva, L. C., 1970, *Rev. Inst. Med. Trop. S. Paulo*, v. 12 (2), 136-143
Schistosoma mansoni, human, hemagglutination test (formalin-treated erythrocyte-coated adult worm extract) and immunofluorescence (adult worm particles fixed on microscope slides), comparison

Immunofluorescence

- Hsu, N. H.; and Cross, J. H., 1977, *Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.)*, v. 76 (12), 950-954
Babesia microti, serologic survey of human rural populations for presence of antibodies using indirect fluorescent antibody test; known prevalence in rodents, findings of survey suggest low human prevalence: Taiwan

Immunofluorescence

- Ilemobade, A. A.; and Blotkamp, C., 1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 307-310
Eperythrozoon ovis, sheep, indirect immunofluorescent antibody test, evaluation for diagnostic purposes, recommended for use in epidemiological studies

Immunofluorescence

- Ilemobade, A. A.; and Blotkamp, C., 1978, *Tropenmed. u. Parasitol.*, v. 29 (3), 311-314
Eperythrozoon ovis, sheep, incidence survey using the indirect immunofluorescent antibody test, 36% were sero-positive but only 12 had positive smears for parasites indicating endemic stability of area: Nigeria

Immunofluorescence

- Ishizuka, M. M.; et al., 1975, *Rev. Fac. Med. Vet. e Zootec. Univ. S. Paulo*, v. 12, 283-287
Toxoplasma gondii, horses, detection of antibodies by Sabin-Feldman test and indirect fluorescent antibody technique compared

Immunofluorescence

- Jeon, Y.; et al., 1977, *Research Rep., Office Rural Develop., Min. Agric. and Fish., Korea (Vet. and Sericult.)*, v. 19, 27-32
Theileria spp., Korean strain, cattle, serological diagnosis, indirect fluorescent antibody technique

Immunofluorescence

- Kaggwa, E.; Weiland, G.; and Rommel, M., 1979, *Bull. Animal Health and Prod. Africa*, v. 27 (2), 127-137
Besnoitia besnoiti, *B. jellisoni*, rabbits, mice, diagnosis, indirect immunofluorescent antibody technique and enzyme-linked immunosorbent assay compared

Immunofluorescence

- Kaliraj, P.; Ghirnikar, S. N.; and Harinath, B. C., 1979, *Indian J. Exper. Biol.*, v. 17 (4), 332-335
 Bancroftian filariasis, human, immunodiagnosis, indirect fluorescent antibody technique using sonicated microfilariae of *Wuchereria bancrofti*, *Brugia malayi*, or *Dirofilaria immitis*; apparent cross reactions with sera from people with intestinal helminth infections

Immunofluorescence

- Kanamura, H. Y.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 242-248
Schistosoma mansoni, human, correlation of class-specific circulating antibodies with clinical forms of disease and with fluorescence patterns developed in sections of both worms and liver granulomata

Immunofluorescence

- Kanamura, H. Y.; Hoshino-Shimizu, S.; and da Silva, L. C., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (2), 76-81
S[chistosoma] mansoni, human, pattern of class-specific fluorescent antibodies according to infection stages, hemagglutination test comparisons

Immunofluorescence

- Kertesz, V.; Roberts, P. W.; and Sharp, P., 1979, *Med. J. Australia*, v. 2 (13), 678-680
 hydatid disease, humans, diagnosis, evaluation of sensitivity and specificity of 3 commonly used serological tests: complement fixation, haemagglutination, and fluorescent antibody techniques

Immunofluorescence

- Khodr, G.; and Matossian, R., 1978, *Obst. and Gynec.*, v. 51 (1), Suppl., 74s-77s
Toxoplasma gondii, stillborn infant, congenital infection with resulting multiple deformities and hydrops fetales, case report, demonstration of toxoplasmic antigenic material in fetal and placental tissue using direct immunofluorescence

Immunofluorescence

- Khoury, E. L.; et al., 1978, *Am. J. Clin. Path.*, v. 69 (1), 62-65
Trypanosoma cruzi, humans, immunofluorescent vascular pattern of EVI antibody (anti-skeletal muscle antibody) on liver tissue useful in detecting previously undiagnosed infections, especially in patients with connective tissue disorders

Immunofluorescence

- Kien, T.; et al., 1978, *Microbia*, v. 4 (3), 43-50
 toxoplasmosis, human, diagnosis, evaluation of fluorescent anti-IgM conjugates in Remington reaction, results proved lack of specificity of some conjugates

Immunofluorescence

- Kloetzel, J.; and Deane, M. P., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (6), 397-402
Trypanosoma cruzi, immunofluorescence of F vs. Y strain, host immunoglobulins attached to surface of F strain, capping of immunoglobulins during differentiation in culture medium

Immunofluorescence

- Kumar, V.; van Meirvenne, N.; and Mortelmans, J., 1978, *Vet. Parasitol.*, v. 4 (2), 175-181
Metastrongylus apri, pigs (exper.), serodiagnosis by means of indirect fluorescent antibody test

Immunofluorescence

- Laarman, J. J.; van den Eijk, A. A.; and Tavenier, P., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 571-577
Entamoeba histolytica, human, diagnosis, gel diffusion vs. immunofluorescence

Immunofluorescence

- Lalic, R.; et al., 1979, Period. Biol., v. 81 (2), 485-487
T[richinella] spiralis, humans (nat.), guinea pigs (exper.), humoral immune response, indirect immunofluorescence test, possible application to immunodiagnosis

Immunofluorescence

- Lalic, R.; Cuperlovic, K.; and Movsesijan, M., 1976, Acta Vet., Beograd, v. 26 (2), 69-75
Fasciola hepatica, rabbits immunized with secretory/excretory antigen, antibodies detected with complement fixation, precipitation, and fluorescent antibody tests, immunologically identical antibodies found after infection

Immunofluorescence

- Latif, B. M. A.; Al-Shenawi, F. A.; and Al-Alousi, T. I., 1979, Ann. Trop. Med. and Parasitol., v. 73 (1), 31-35
kala-azar in children, indirect fluorescent antibody test used for diagnosis and to differentiate *Leishmania donovani* from *Leishmania tropica*, cross-reactivity of *Leishmania donovani* antigen with antisera of other parasitic infections studied

Immunofluorescence

- Latif, B. M. A.; Said, M. S.; and Ali, S. R., 1979, Vet. Parasitol., v. 5 (4), 307-314
Babesia bigemina, cattle of 2 different age groups (exper.), clinical manifestations, parasitemia, indirect fluorescent antibody titer

Immunofluorescence

- Lee, S. Y.; et al., 1973, Taiwan i Hsueh Hui Tsa Chih (J. Formosan Med. Ass.), v. 72 (2), 91-95
Toxoplasma gondii, recovery of cysts from swine brains, formalin-ether and impression smear on inoculated mouse brain compared with fluorescent antibody technique combined with gum Arabic concentration

Immunofluorescence

- Le Lorier, B.; et al., 1978, Rev. de Med. Limoges, v. 9 (3), 143-148
 human toxoplasmosis, comparative discussion on value of Sabin-Feldman dye test, immunofluorescence and agglutination for diagnosis

Immunofluorescence

- Leser, P. G.; Camargo, M. E.; and Baruzzi, R., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (4), 232-236
 toxoplasmosis, Brazilian Indians (Kren-Akore) who have had only recent contact with civilized man, serological survey using immunofluorescence and hemagglutination, high degree of positive tests: Xingu National Park

Immunofluorescence

- Lopes, E. R.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 244-246
Trypanosoma cruzi, human, post-mortem diagnosis of chronic Chagas disease, evaluation of 3 serological tests on pericardial fluid (haemagglutination, fluorescent antibody, and complement fixation)

Immunofluorescence

- Lopez-Brea, M.; Iturriaga, R.; and Aparicio, M., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 348 [Letter]
Leishmania donovani, child, diagnosis using *Crithidia* sp. as antigen for the indirect fluorescent antibody test gave positive results earlier than direct smear from the spleen

Immunofluorescence

- Lopez V., G.; and Todorovic, R. A., 1978, Vet. Parasitol., v. 4 (1), 1-9
Babesia argentina, cattle (nat. and exper.), diagnosis by rapid latex agglutination test applicable in field, specificity relative to infections with *Babesia bigemina* and *Anaplasma marginale*, comparison of results with complement fixation and indirect fluorescent antibody tests

Immunofluorescence

- Luckins, A. G.; et al., 1979, Trop. Animal Health and Prod., v. 11 (1), 1-12
Trypanosoma evansi, camels (nat. and exper.), indirect fluorescent antibody test and microscale enzyme linked immunosorbent assay compared with tests for detection of raised euglobulin levels: Sudan

Immunofluorescence

- Luckins, A. G.; Gray, A. R.; and Rae, P., 1978, Ann. Trop. Med. and Parasitol., v. 72 (5), 429-441
Trypanosoma evansi, rabbits, serodiagnosis, comparison of serum immunoglobulin levels, enzyme-linked immunosorbent assay, and fluorescent antibody test

Immunofluorescence

- Luckins, A. G.; and Mehlitz, D., 1978, Trop. Animal Health and Prod., v. 10 (3), 149-159
 trypanosomiasis, cattle, diagnosis, indirect fluorescent antibody test, enzyme-linked immunosorbent assay, and serum IgM levels compared: Liberia

Immunofluorescence

- Machado, A. de J.; Carmargo, M. E.; and Hoshimoto, S., 1973, Rev. Soc. Brasil. Med. Trop., v. 7 (3), 181-183
Cysticercus cellulosae, fluorescent antibody test for serodiagnosis, delipidized particles of parasite fixed on microscope slides used for antigen

Immunofluorescence

- Machnicka, B.; et al., 1977, Acta Parasitol. Polon., v. 25 (1-10), 55-62
Cysticercus bovis in calves (exper.), morphogenesis, localization, host tissue reaction, immunological findings in indirect immunofluorescence test, histological and histochemical study of bladder

Immunofluorescence

- Magnani, M. A. C.; Ferriolli, F. (filho); and de Siqueira, A. F., 1973, Rev. Inst. Med. Trop. S. Paulo, v. 15 (2), 72-75
Trypanosoma cruzi, human sera, indirect immunofluorescence used for detection of specific immunoglobulin levels (IgA, IgG, IgM)

Immunofluorescence

- Maier, W. A.; and Piekarski, G., 1979, *Immun. u. Infekt.*, v. 7 (3), 75-82
malaria, human, diagnosis, indirect immunofluorescent test using *Plasmodium berghei* or *P. falciparum* as antigen

Immunofluorescence

- Manawadu, B. R.; and Voller, A., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 456-462
malaria, standardization of indirect fluorescent antibody test

Immunofluorescence

- Manawadu, B. R.; and Voller, A., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 463-466
Plasmodium spp., detection and measurement of species-specific malarial antibodies using standardized indirect fluorescent antibody test

Immunofluorescence

- Mangenot, M.; et al., 1979, *Med. Trop.*, v. 39 (5), 527-530
African trypanosomiasis, humans, detection of foci, ELISA vs. immunofluorescence

Immunofluorescence

- Mannweiler, E.; Lederer, I.; and zum Felde, I., 1978, *Zentralbl. Bakteriол.*, 1. Abt. Orig., Reihe A, v. 240 (3), 397-402
[Leishmania] donovani-infected humans, increased IgG levels, *L. donovani*, *L. brasiliensis*, and *L. tropica* antigens used in comparison of immunological diagnostic methods studying antibody titers, indirect haemagglutination test unsuitable for diagnosis

Immunofluorescence

- Marinkelle, C. J.; et al., 1978, *Rev. Inst. Med. Trop. S. Paulo*, v. 20 (2), 112-114
Chagas disease, human, diagnosis in rural areas using immunofluorescence, recommendations for storage of serum absorbed on filter paper samples

Immunofluorescence

- Markiw, M. E.; and Wolf, K., 1978, *J. Fish. Research Bd. Canada*, v. 35 (6), 828-832
Myxosoma cerebralis, rabbits immunized with antigens extracted from mature spores or pre-spore stages, antisera and globulins used in fluorescent antibody techniques, direct fluorescent antibody test showed higher specificity than indirect FAT in cross reactions with other species of myxosporidians

Immunofluorescence

- Mason, P. R., 1979, *J. Clin. Path.*, v. 32 (12), 1211-1215
Trichomonas vaginalis, antenatal patients, diagnosis, indirect fluorescent antibody test

Immunofluorescence

- Matossian, R. M.; et al., 1979, *J. Helminth.*, v. 53 (4), 287-291
human hydatid disease, serodiagnosis, indirect haemagglutination, enzyme-linked immunosorbent assay; fluorescence using defined antigen substrate spheres

Immunofluorescence

- Menzel, S.; and Bienzle, U., 1978, *Tropenmed. u. Parasitol.*, v. 29 (2), 194-197
Leishmania tropica, humans with recent primary exposure, fluorescent antibody test detected antibodies to *L. donovani* in 19 of 41 individuals, complement fixation and indirect hemagglutination tests were not useful for diagnosis

Immunofluorescence

- Meuwissen, J. H. E. T., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 585-591
human malaria, indirect fluorescent antibody technique, review: Holland

Immunofluorescence

- Meyers, J. D.; et al., 1979, *Am. Rev. Resp. Dis.*, v. 120 (6), 1283-1287
Pneumocystis carinii, marrow-transplant patients, diagnosis, counterimmunoelectrophoresis, indirect immunofluorescence

Immunofluorescence

- Mougeot, G.; et al., 1978, *Ann. Parasitol.*, v. 53 (3), 277-283
Schistosoma mansoni in *Rattus rattus* and *R. norvegicus*, survey by immunofluorescence, variation in rate of infection and in antibody titers in 3 different biotopes, possible explanations: Guadeloupe

Immunofluorescence

- Mougeot, G.; Golvan, Y. J.; and Delattre, P., 1978, *Compt. Rend. Acad. Sc.*, Paris, v. 286, s. D, *Sc. Nat.*, (1), 141-143
Schistosoma mansoni, detection in rats using technique of micro-sampling of blood (after which animals can be marked and released) followed by immunofluorescence test, epidemiological usefulness: Guadeloupe

Immunofluorescence

- Movsesijan, M.; et al., 1977, *Vet. Glasnik*, v. 31 (10), 729-734
Ascaris suum, swine, diagnosis by fluorescent antibody test more successful than fecal examination

Immunofluorescence

- Muchnik, G.; et al., 1978, *Rev. Hosp. Ninos*, Buenos Aires (78), v. 20, 4-10
toxoplasmosis, children, survey for presence of antibodies using the direct agglutination and indirect immunofluorescence tests, gradual increase in infection rate with age (60% by age 14)

Immunofluorescence

- Munday, B. L., 1978, *Internat. J. Parasitol.*, v. 8 (4), 285-288
Toxoplasma gondii, calves (exper.), pregnant cows (exper.), antibody titres measured by indirect fluorescent antibody test and dye test, *Toxoplasma* reisolated from 3 of the 5 calves, no abortions in pregnant cows and no evidence of infection in their calves, concluded that cattle do not readily acquire persistent *T. gondii* infections

Immunofluorescence

- Nardin, E. H.; and Nussenzweig, R. S., 1978, *Nature*, London (5666), v. 274, 55-57
Plasmodium berghei-mouse and *P. knowlesi*-rhesus monkeys systems, detection of stage and species specific antisporeozoite antibodies with circumsporozoite precipitation and indirect immunofluorescence methods, preliminary application to *P. falciparum* in humans with similar results

- Immunofluorescence**
Nash, T. E., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 939-943
Schistosoma spp., human, specific IgM and IgG antibody response to polysaccharide antigen present in schistosome gut, indirect immunofluorescent technique, easily performed reliable diagnostic test with high sensitivity and specificity
- Immunofluorescence**
Niederhorn, J. Y., 1978, *J. Parasitol.*, v. 64 (4), 763-764
Mesocostoides corti, fluorescent antibody studies of sera and intestinal extracts of mice subcutaneously vaccinated with tetrathyridia, results favor hypothesis that intestinal immunity against tetrathyridia is antibody-mediated to some degree
- Immunofluorescence**
Novoselska, L. I., 1978, *Dokl. Bolgar. Akad. Nauk*, v. 31 (3), 353-356
Trichinella larvae (intact larvae vs. cryostat sections in guinea pig muscle), desorption of antigens, immunofluorescent studies of cuticle
- Immunofluorescence**
Nozais, J. P.; Truong Minh Ky, D.; and Doucet, J., 1979, *Med. Trop.*, v. 39 (5), 549-553
malaria, newborn infants and young children living in stable hypoendemic area, evaluation of antimalarial antibody titers using *Plasmodium berghei* as antigen: Abidjan dispensary, Ivory Coast
- Immunofluorescence**
Okot-Kotber, B. M., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (3), 255-262
Schistosoma mansoni, indirect fluorescent antibody test used to follow development of stage-characteristic immunofluorescent patterns in mice exposed to cercariae; 3 patterns described
- Immunofluorescence**
Panigrahi, H.; et al., 1978, *Indian J. Med. Research*, v. 67, 918-923
Toxoplasma gondii, comparison of indirect hemagglutination test and fluorescent antibody test in detection of antibodies in human sera
- Immunofluorescence**
Parc, F.; et al., 1978, *Bull. World Health Organ.*, v. 56 (2), 305-308
Wuchereria bancrofti var. *pacifica*, simplified methods for collecting larval forms, preparation for immunofluorescence
- Immunofluorescence**
Payne, R. C., 1978, *Research Vet. Sc.*, v. 24 (3), 375
Babesia major, cryopreservation of infected bovine blood, preserved in liquid nitrogen for use in indirect fluorescent antibody test
- Immunofluorescence**
Peeters, J. E.; Meulemans, G.; and Halen, P., 1979, *Ann. Med. Vet.*, v. 123 (1), 39-45
Toxoplasma gondii, incidence in domestic rabbits originating from small family or industrial rabbitries, indirect fluorescent antibody test: Belgium
- Immunofluorescence**
Pellegrino, J.; and de Mello, R. T., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (1), 1-4
Schistosoma mansoni, humans, diagnosis using the circumoval precipitin test with indirect immunofluorescence, good sensitivity and specificity
- Immunofluorescence**
Perea, E. J.; and Barrios, S., 1975, *Rev. Clin. Espan.*, v. 137 (6), 513-516
human toxoplasmosis, serologic diagnosis by microagglutination more sensitive than indirect immunofluorescence in comparative evaluations
- Immunofluorescence**
Petrovic, M.; and Deedler, A. M., 1979, *Period. Biol.*, v. 81 (2), 513-515
Fasciola hepatica, immunodiagnosis, application of Defined Antigen Substrate Spheres system to immunofluorescence and immunohisto- peroxidase reactions, cross-reactivity with *Schistosoma mansoni*
- Immunofluorescence**
Pifer, L. L.; et al., 1978, *Pediatrics*, *Am. Acad. Pediat.*, v. 61 (1), 35-41
Pneumocystis carinii, methods (counterimmunoelectrophoresis and indirect immunofluorescence) of detecting antigen and antibody in sera of normal and immunosuppressed children, evidence that subclinical infections are highly prevalent in normal children while active disease is prevalent in the compromised child
- Immunofluorescence**
Playfair, J. H. L.; and De Souza, J. B., 1979, *Parasite Immunol.*, v. 1 (3), 197-208
Plasmodium yoelii- or *P. berghei*-vaccinated mice, immunofluorescent antibody response with particular reference to antibody class and subclass, correlation with protection, passive transfer experiments, effect of macrophage stimulation and inhibition on antibody and on protection
- Immunofluorescence**
Price, S. M.; and Silvers, D. N., 1977, *Arch. Dermat.*, Chicago, v. 113 (10), 1415-1416
cutaneous leishmaniasis resulting in ulcerous lesion on arm of college student who had recently returned from Peru, case report, diagnostic problems finally resolved by fluorescent antibody test: New York
- Immunofluorescence**
Pyndiah, N.; et al., 1979, *J. Clin. Microbiol.*, v. 9 (2), 170-174
simplified chromatographic separation of IgM from IgG and its application to diagnosis of *Toxoplasma gondii* by indirect immunofluorescence
- Immunofluorescence**
Ranque, J.; et al., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 579-584
Leishmania donovani, humans, canines, sero-immunological diagnosis, review
- Immunofluorescence**
Rijpstra, A. C., 1975, *Ann. Soc. Belge Med. Trop.*, v. 55 (5), 415-425
intestinal parasites, primary school children, prevalence survey using duplicated series of stool examinations by 5 different methods; serologic survey for invasive amoebiasis and schistosomiasis: Nairobi

Immunofluorescence

- Rivas, A.; Rodriguez, O. N.; and Espaine, L., 1977, Rev. Cubana Cien. Vet., v. 8 (1), 1-11
Babesia argentina, *B. bigemina*, bovine, complement fixation and immunofluorescence tests evaluated: Cuba

Immunofluorescence

- Rivas, A.; Rodriguez, O. N.; and Espaine, L., 1977, Rev. Cubana Cien. Vet., v. 8 (1), 13-20
Anaplasma marginale, bovine, immunofluorescence and complement fixation tests evaluated: Cuba

Immunofluorescence

- Rodriguez Osorio, M.; et al., 1978, Rev. Iber. Parasitol., v. 38 (3-4), 793-804
Sarcocystis moulei, caprine, comparative study of 3 diagnostic tests, peptic artificial digestion, immunodiffusion, and indirect immunofluorescence

Immunofluorescence

- Rombert, P. C.; Barbosa, W.; and Rocha, R. P. M., 1972, Rev. Patol. Trop., v. 1 (1), 107-114
 human filariasis, diagnosis using the indirect immunofluorescence test and antigen from eggs of *Dirofilaria immitis* and *Loa loa*

Immunofluorescence

- Rotmans, J. P., 1978, Exper. Parasitol., v. 46 (1), 49-58
Schistosoma mansoni, antigenic characterization of malate dehydrogenase isoenzymes by immunoelectrophoresis, malate dehydrogenase antigens in *S. mansoni*, *S. haematobium*, and *S. bovis* are immunologically indistinguishable, attempted use of these antigens in defined antigen substrate spheres system, not sensitive enough for immunodiagnosis

Immunofluorescence

- Ruitenbergh, E. J., 1977, Tech. Immunofluoresc. et React. Immuno-enzymat., 185-190
Trichinella spiralis, man and animals, diagnosis, enzyme-linked immunosorbent assay, indirect immunofluorescence, review

Immunofluorescence

- Ruiz-Tiben, E.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 230-236
Schistosoma mansoni, human, 6 serologic tests evaluated by comparing their results with those of sensitive stool examination method, relationship between intensity of infection and sensitivity and specificity of serologic tests: Parcelas de Boqueron, Puerto Rico

Immunofluorescence

- Saathoff, M.; Kasper, M.; and Demmer, H., 1978, Deutsche Med. Wchnschr., v. 103 (41), 1606-1608, 1609-1611
Trichinella spiralis, humans, animals, diagnosis, sensitivity and specificity of 4 different serological tests, serologic differentiation from some other helminth infections with which cross-reactions occur

Immunofluorescence

- Sandoval Islas, M. E.; et al., 1977, Rev. Invest. Salud Pub., Mexico, v. 37 (1), 31-35
Onchocerca volvulus, comparison diagnostic study using sera and blood from persons living in endemic and non-endemic areas, fluorescent antibody test gave varying positive results

Immunofluorescence

- dos Santos, R. R.; Amato Neto, V.; and Gioia, I., 1975, Rev. Goiana Med., v. 21 (1-2), 23-27
Leptomonas pessoai antigens and sera of patients infected with *Trypanosoma cruzi* gave frequent positive reactions with the passive hemagglutination, complement fixation and indirect immunofluorescence tests, possible implications for prophylactic vaccine for Chagas disease

Immunofluorescence

- Schillhorn van Veen, T. W.; and Buys, J., 1979, Tropenmed. u. Parasitol., v. 30 (2), 194-197
Fasciola gigantica, attempted serodiagnosis of chronic infection using a fluorescent antibody technique with single and multiple whole-fluke antigens; test seems of doubtful use in areas where fascioliasis as well as other fluke infections are endemic

Immunofluorescence

- Schilt, U., 1978, Schweiz. Med. Wchnschr., v. 108 (18), 668-672
Toxoplasma gondii, human, diagnosis, sensitivity and reproducibility of indirect immunofluorescence, results of tests on 2593 Bernese people in 9 age classes; need for expression of antibody titers in international units

Immunofluorescence

- Schmunis, G. A.; et al., 1977, Rev. Hosp. Niños, Buenos Aires (73), v. 19, 15-20
Trypanosoma cruzi, humans, diagnosis of acute infections by the direct agglutination test and by indirect immunofluorescence, techniques also useful in evaluating effects of therapy

Immunofluorescence

- Schmunis, G. A.; Averbach, S.; and Averbach, B., 1976, Rev. Asoc. Bioquim. Argent. (224), v. 41, 43-50
Toxoplasma gondii, evaluation of detection of immunoglobulin M for diagnosis using the immunofluorescence test, concluded that detection of IgM is helpful but should be used in conjunction with other diagnostic procedures

Immunofluorescence

- Shepherd, V.; Jameson, B.; and Knowles, G. K., 1979, J. Clin. Path., v. 32 (8), 773-777
Pneumocystis carinii, people, diagnosis, Nowoslawski's indirect fluorescent antibody method: UK

Immunofluorescence

- Shien, Y. S., 1977, J. Chinese Soc. Vet. Sc., v. 3 (2), 31-36
Trypanosoma evansi, reservoir cattle, diagnosis, indirect fluorescent antibody technique

Immunofluorescence

- Shindel, N.; Dardiri, A. H.; and Ferris, D. H., 1978, Canad. J. Comp. Med., v. 42 (4), 460-465
 Cytauxzoon-like parasite, cats (exper.), detection in frozen spleen sections by indirect fluorescent antibody test

Immunofluorescence

- da Silva, L. C.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (2), 121-130
Schistosoma mansoni, humans, immunodiffusion, hemagglutination, immunofluorescence and eosinophil counts before and after therapy with hycanthone or niridazole

- Immunofluorescence**
da Silva, L. C.; et al., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (6), 344-349
human schistosomiasis mansoni, immunofluorescence, passive hemagglutination, and immunodiffusion tests used to detect early antibody increases after hycanthone therapy
- Immunofluorescence**
Singh, M.; et al., 1979, Southeast Asian J. Trop. Med. and Pub. Health, v. 10 (4), 486-497
Brugia malayi, Wuchereria bancrofti, infected human sera, indirect immunofluorescence test using sonicated microfilariae of B. malayi as antigen, cross reaction studies with onchocerciasis sera
- Immunofluorescence**
Spencer, H. C.; Collins, W. E.; and Skinner, J. C., 1979, Am. J. Trop. Med. and Hyg., v. 28 (6), 933-936
malaria, human sera, enzyme-linked immunosorbent assay using cultured Plasmodium falciparum as antigen compared with indirect fluorescent antibody test
- Immunofluorescence**
Stanley, H. A.; Honigberg, B. M.; and Cunningham, I., 1978, J. Protozool., v. 25 (2), 245-252
Trypanosoma brucei brucei, bloodstream and culture forms, analysis of antigenic composition by quantitative direct fluorescent antibody methods
- Immunofluorescence**
Storni, P.; et al., 1979, Rev. Asoc. Bioquim. Argent. (237), v. 43, 69-77
[Trypanosoma] cruzi, soldiers from 4 different provinces in 3 different years, prevalence of infection, correlation between different serodiagnostic methods: northeastern Argentina
- Immunofluorescence**
Sulzer, A. J.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 76-83
Plasmodium malariae, P. vivax, sero-epidemiologic survey (value of indirect immunofluorescence test emphasized) of coinciding foci of human malaria and leptospirosis in the Peruvian Amazon area
- Immunofluorescence**
Suter-Kopp, V.; Giacometti, P. L.; and Bernhard, A., 1971, Schweiz. Med. Wchnschr., v. 101 (44), 1578-1581
schistosomiasis, filariasis, humans returning from tropical areas, tested by the indirect immunofluorescence test for possible parasitism
- Immunofluorescence**
Szarfman, A.; et al., 1977, An. Microbiol., Rio de Janeiro, v. 22, 1976-1977, 95-103
Trypanosoma cruzi, human, diagnosis, comparison between indirect immunofluorescent and indirect immunoperoxidase tests
- Immunofluorescence**
Tello, P.; and Sanhueza, J., 1978, Bol. Chileno Parasitol., v. 33 (1-2), 12-15
toxoplasmosis, human, evaluation of indirect immunofluorescence test, diagnostic purposes, Sabin-Feldman dye test used for comparison
- Immunofluorescence**
Tettamanti, S.; Bounameux, Y.; and Suter-Kopp, V., 1972, Schweiz. Med. Wchnschr., v. 102 (32), 1117-1124
Toxocara canis, humans, case reports, clinical aspects, discussion of serologic diagnosis using indirect immunofluorescence test
- Immunofluorescence**
Thomas, V.; and Dissanaik, A. S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (3), 303-306
Sarcocystis, human, indirect fluorescent antibody test using Sarcocystis fusiformis as antigen, antibody prevalence varies among 4 ethnic groups (Orang Asli, Malays, Indians, Chinese), some sera also reacted positively to Toxoplasma: West Malaysia
- Immunofluorescence**
Thomas, V.; Ogunba, E. O.; and Fabiyi, A., 1979, Ann. Trop. Med. and Parasitol., v. 73 (5), 451-456
Schistosoma mansoni, S. haematobium, humans, evaluation of seroimmunologic techniques (indirect fluorescent antibody, complement fixation and counter-current immunoelectrophoresis) for diagnosis; cross reactions were consistently present so that it was not possible to differentiate between the parasites: Nigeria
- Immunofluorescence**
Tin, F., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 552-557
Toxoplasma gondii, Plasmodium, young school children living in 2 areas of different phases of an antimalarial control program, survey for presence of malaria and toxoplasmosis antibodies using the indirect fluorescent antibody test: Burma
- Immunofluorescence**
Tinar, R., 1975, Vet. Fak. Dergisi, Ankara Univ., v. 22 (3-4), 125-136
Fasciola gigantica, sheep, diagnosis, indirect immunofluorescence technique satisfactory
- Immunofluorescence**
Todorovic, R.; and Garcia, R., 1978, Tropenmed. u. Parasitol., v. 29 (1), 88-94
Babesia spp., cattle, diagnosis, indirect fluorescent antibody test, comparison between techniques of dried blood on filter paper and serum samples, sensitivity and specificity, laboratory and field conditions: Colombia
- Immunofluorescence**
Trees, A. J., 1978, Research Vet. Sc., v. 24 (1), 126-128
Babesia divergens, cattle (exper.), indirect fluorescent antibody levels not markedly different in splenectomized calves vs. non-splenectomized adult cattle
- Immunofluorescence**
Van Marck, E., 1975, Ann. Soc. Belge Med. Trop., v. 55 (4), 373-377
Schistosoma mansoni-infected mice, presence of circulating polysaccharide schistosomal antigen in Kupffer cells demonstrated by immunofluorescence
- Immunofluorescence**
Van Meirvenne, N.; et al., 1975, Ann. Soc. Belge Med. Trop., v. 55 (5), 545-549
gambian and rhodesian sleeping sickness, humans, serological and parasitological diagnostic methods, review

Immunofluorescence

Vetter, J. C. M.; and Klaver-Wesseling, J. C. M., 1978, *Ztschr. Parasitenk.*, v. 58 (1), 91-96

Ancylostoma caninum, relationship between IgG antibody binding to outer surface and metabolic state of infective larvae, indirect fluorescent antibody technique

Immunofluorescence

Vullo, V.; et al., 1979, *Boll. Ist. Sieroterap. Milanese*, v. 58 (2), 141-147
 hydatidosis, amebiasis, urinary schistosomiasis, human, diagnosis, immunoperoxidase and immunofluorescence techniques compared

Immunofluorescence

Waller, T.; Morein, B.; and Fabiansson, E., 1978, *Lab. Animals*, v. 12 (3), 145-148
Encephalitozoon cuniculi, rabbits, humoral immune response following different routes of infection, india-ink immunoreaction test, indirect immunofluorescent antibody test, and immunodiffusion test, immunoglobulin classes involved, possible use of results in eradication program

Immunofluorescence

Walls, K. W.; and Barnhart, E. R., 1978, *J. Clin. Microbiol.*, v. 7 (2), 234-235
Toxoplasma gondii, human, new technique (FIAX) for serodiagnosis, based on 'dipstick' principle, special fluorometer used to perform indirect immunofluorescence test, rapid simple test which gives quantitative measure with single reading

Immunofluorescence

Weiland, G.; and Schwarzhuber, A., 1978, *Berl. u. Munchen. Tierarztl. Wchnschr.*, v. 91 (11), 209-213
 visceral larva migrans, mice, dogs, humans, enzyme-linked immunosorbent assay and indirect immunofluorescence using *Toxocara canis* and *Ascaris suum* as antigens proved to be unsuitable for diagnosis, cross-reactivity with other helminths

Immunofluorescence

Weinstok, H.; et al., 1979, *Bull. Pan Am. Health Organ.*, v. 13 (3), 257-263
Plasmodium vivax, *P. falciparum*, human, survey, indirect immunofluorescence test, prevalence of antibodies: Costa Rica

Immunofluorescence

Welch, J. S.; and Dobson, C., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 282-288
 4 nematode spp. in natural and zoonotic hosts and in immunized rabbits, immunodiagnosis, comparative efficacy of 3 immunofluorescence tests using antigens purified by affinity chromatography

Immunofluorescence

Welch, J. S.; Dobson, C.; and Freeman, C., 1979, *Austral. Vet. J.*, v. 55 (6), 265-274
Dirofilaria immitis, *Toxocara canis*, dogs, epidemiological survey, host age, sex, and breed, immunodiagnosis (3 immunofluorescence tests, in vitro lymphocyte blastogenesis); prevalence of serum antibody in man proportional to incidence of canine infections: Queensland; Central Australia

Immunofluorescence

Wery, M.; et al., 1970, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 50 (6), 711-750
T[rypanosoma] gambiense, humans, diagnosis, fluorescent antibody test, statistics of application to field survey

Immunofluorescence

Wery, M.; Wery-Paskoff, S.; and Van wettere, P., 1970, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 50 (5), 613-634
Trypanosoma gambiense, human, diagnosis, indirect fluorescent antibody test using *T. gambiense*, *T. brucei*, or *T. congolense* strains as antigen, standardization of easy technique to be used in mass surveys

Immunofluorescence

Wery-Paskoff, S.; et al., 1971, *Ann. Soc. Belges Med. Trop. Parasitol.*, v. 51 (2), 221-227
Entamoeba histolytica, human hepatic abscess, diagnosis, indirect fluorescent antibody test

Immunofluorescence

Wery-Paskoff, S.; Renoirte, R.; and Wery, M., 1974, *Ann. Soc. Belge Med. Trop.*, v. 54 (1), 65-71
 amebiasis, intestinal and hepatic human forms, diagnosis by indirect immunofluorescence of dried blood samples, value in sero-epidemiologic studies

Immunofluorescence

Willært, E.; Stevens, A. R.; and Héaly, G. R., 1978, *J. Clin. Path.*, v. 31 (8), 717-720
Acanthamoeba culbertsoni, retrospective identification of organism causing fatal amoebic meningoencephalitis in immunosuppressed man, positive results obtained with anti-*Acanthamoeba culbertsoni* sera when brain sections were stained by indirect immunofluorescence antibody test

Immunofluorescence

Wilson, A. J.; et al., 1978, *Austral. Vet. J.*, v. 54 (8), 385-386
Anaplasma marginale, cattle, comparison of 4 serological tests for detection of humoral antibodies (capillary agglutination, complement fixation, plate agglutination, and indirect fluorescent antibody)

Immunofluorescence

Wissler, K.; and Eckert, J., 1979, *Therap. Umschau*, v. 36 (3), 233-240
Entamoeba histolytica, human, seroimmunologic survey comparing indirect immunofluorescent, latex agglutination, and indirect hemagglutination tests

Immunofluorescence

Wong, M. M.; and Suter, P. F., 1979, *Am. J. Vet. Research*, v. 40 (3), 414-420
Dirofilaria immitis, dogs (exper.) without microfilaremia, indirect fluorescent antibody titers, degree of eosinophilia, and radiologic findings before and after treatment, reinfection, necropsy findings, significance of tests, application to diagnosis

Immunofluorescence

Yang, J.; and Kennedy, M. T., 1979, *J. Clin. Microbiol.*, v. 10 (6), 778-785
Entamoeba histolytica, human, diagnosis, development and evaluation of enzyme-linked immunosorbent assay, compared with indirect fluorescent antibody and indirect hemagglutination techniques

Immunofluorescence

- Yeni, P.; et al., 1978, *Lancet*, London (8057), v. 1, 219-220 [Letter]
human toxoplasmosis, high percentage of false positive results in immunofluorescence detection of IgM anti-Toxoplasma antibodies when serum used for test also contains rheumatoid factor

Immunofluorescence

- Yu, M.; and Loo, L. A., 1970, *Singapore Med. J.*, v. 11 (1), 59-61
Endamoeba histolytica, diagnosis, indirect fluorescent antibody test

Immunofluorescence

- Zil'man, S. L., 1978, *Vestnik Dermat. i Ven-erol.* (5), 26-28
trichomoniasis, human urogenital, diagnosis, immunofluorescence using capillary blood

Immunoglobulins

- Aalund, O., 1972, *Immun. Animal Parasites*, 1-31
humoral immune response and immunoglobulins of ruminants and swine, review

Immunoglobulins

- Ali, S. A. K.; Jabir, M. H.; and Singh, (Kr.) S., 1979, *Indian J. Animal Sc.*, v. 49 (5), 373-376
Dictyocaulus filaria, lambs given irradiated vaccine or non-irradiated larvae, serum protein changes

Immunoglobulins

- Allen, J. R.; Khalil, H. M.; and Graham, J. E., 1979, *Immunology*, v. 38 (3), 467-472
Dermacentor andersoni, guinea pigs undergoing primary and secondary infestations, immunofluorescent localization of tick salivary gland antigens, IgG, and complement in skin

Immunoglobulins

- Andrade, Z. A.; and Sadigursky, M., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (3), 316-318
Schistosoma mansoni, immunofluorescence studies of schistosome structures which share determinants with circulating schistosome antigens (CSA), Ig class of antibodies in patients' serum that attach to sites where CSA determinants are found

Immunoglobulins

- Antunes, L. J.; et al., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (1), 9-13
human intestinal schistosomiasis mansoni before and after treatment with aminonitrothiazole, immunoglobulin levels, immediate and delayed cutaneous hypersensitivity

Immunoglobulins

- Araki, T.; Nakazato, H.; and Ikoma, K., 1976, *Kiseichugaku Zasshi* (Japan. J. Parasitol.), v. 25 (3), 153-160
helminthiasis, human, serum IgE levels before and after treatment with pyrantel pamoate, radioimmunosorbent technique and single radial immunodiffusion method

Immunoglobulins

- Arbesman, C. E.; Wypych, J. I.; and Reisman, R. E., 1973, *Immunol. Series*, v. 1, 163-176
serum IgE levels in variety of human diseases, including parasitic

Immunoglobulins

- Askonas, B. A.; et al., 1979, *Immunology*, v. 36 (2), 313-321
Trypanosoma brucei brucei, mice, functional depletion of T- and B-memory cells and other lymphoid cell populations, serum Ig levels, immunosuppression in T-deprived and CBA/N mice; cells affecting delayed hypersensitivity reactions provide only exception to general decline in immune potential

Immunoglobulins

- Assoku, R. K. G.; Hazlett, C. A.; and Tizard, I., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (3), 298-307
Trypanosoma congolense, mice, significant depression of humoral immunity, simultaneous increase in background IgM plaque-forming cell levels, mitogenicity of trypanosome-derived saturated fatty acids

Immunoglobulins

- Barriga, O. O., 1978, *J. Parasitol.*, v. 64 (4), 638-644
Trichinella spiralis, mice pretreated with parasite extract, saline, or bovine serum albumin, blastogenic responses to T- and B-cell mitogens, production of rosette- and of direct and indirect plaque-forming cells, and titers of IgM and of IgG circulating antibodies, results indicate that suppressor T-cells apparently play major but not exclusive role in *T. spiralis*-induced nonspecific immunodepression

Immunoglobulins

- Bazin, H., 1978, *Colloque Immun. Parasit. Dis.* (Thiverval-Grignon, Sept. 5-9, 1977), 185-200
secretory immunoglobulins and local immunity, colloquium presentation

Immunoglobulins

- Blecka, L. J., 1978, *J. Parasitol.*, v. 64 (2), 362-363
patients infected with intestinal parasites, attempt to quantitate immunoglobulin levels in fecal extracts with radial immunodiffusion, mean IgA levels higher than in controls, other immunoglobulin classes rarely detectable

Immunoglobulins

- Bloch, K. J., 1973, *Immunol. Series*, v. 1, 11-32
reaginic and other homocytotropic antibodies: diverse immunoglobulins with common function, review including information on *Nippostrongylus brasiliensis*-rat system

Immunoglobulins

- Bogucki, M. S.; and Seed, J. R., 1978, *J. Reticuloendothel. Soc.*, v. 23 (2), 89-101
Trypanosoma brucei gambiense, parasite-bound heterospecific antibody, immunoglobulin class specificity, location and orientation, may be related to successful propagation of trypanosomes in immunocompetent hosts

Immunoglobulins

- Boron-Kaczmarek, A.; et al., 1979, *Zentralbl. Bakteriol.*, 1. Abt. Orig., Reihe A, v. 245 (3), 387-394
trichinellosis, human, acute phase, IgG, IgA, and IgM levels, percentages of T and B lymphocytes

Immunoglobulins

- Bout, D.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (1), 35-38
Schistosoma mansoni, characterization of immunoglobulins and antigens involved in immune complexes

Immunoglobulins

- Brossard, M.; and Girardin, P., 1979, Experimentia, v. 35 (10), 1395-1397
Ixodes ricinus, rabbits, passive transfer of resistance with immune serum, effect on feeding and egg laying, IgG and homocytotropic specific antibodies of donors and recipients, immediate skin sensitivity of recipients

Immunoglobulins

- Bruining, C. F. A.; and de Vries, H., 1978, Acta Leidensia, v. 46, 31-51
Schistosoma mansoni, transmission of IgG, IgM, and IgA antibodies from mother to fetal and newborn mice

Immunoglobulins

- Camargo, M. E.; and Amato Neto, V., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (4), 200-202
Trypanosoma cruzi, IgM antibodies as evidence of recent infection, immunofluorescent technique, epidemiological applications

Immunoglobulins

- Camargo, M. E.; Leser, P. G.; and Leser, W. S. P., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 215-226
Toxoplasma gondii, comparative study of hemagglutination, complement fixation, IgG- and IgM-immunofluorescence tests on human serum samples

Immunoglobulins

- Camargo, M. E.; Leser, P. G.; and Rocca, A., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (5), 310-313
Toxoplasma gondii, human, IgM fluorescence test, false positive results caused by rheumatoid factor; heat-aggregated gamma globulin added to sera avoids false positives

Immunoglobulins

- Capron, M.; et al., 1978, European J. Immunol., v. 8 (2), 127-133
Schistosoma mansoni, rats, eosinophil-dependent cytotoxicity, involvement of IgG_{2a} antibody and role of mast cells, these and previous observations suggest possible participation of anaphylactic antibodies in immunity to schistosomes in the rat

Immunoglobulins

- Capron, A.; Dessaint, J. P.; and Capron, M., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 217-230
 effector mechanisms in immunity to schistosomes, comparison of 2 antibody-dependent cell-mediated cytotoxicity models (IgG-eosinophil model vs. IgE-macrophage model), colloquium presentation

Immunoglobulins

- Chapman, C. B.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (4), 369-387
 chronic parasitic infections in mice, IgG₁ hypergammaglobulinaemia, daily rate and location of production of IgG₁, T cell dependence of response

Immunoglobulins

- Chapman, C. B.; et al., 1979, Austral. J. Exper. Biol. and Med. Sc., v. 57 (4), 389-400
Mesocostoides corti, *Nematospiroides dubius*, mice, IgG₁ hypergammaglobulinaemia, evidence that response reflects chronicity of antigen exposure

Immunoglobulins

- Clayton, C. E.; Ogilvie, B. M.; and Askonas, B. A., 1979, Parasite Immunol., v. 1 (1), 39-48
Trypanosoma brucei brucei in nude mice confirms that infection causes both enhanced Ig production and suppression of ability of B cells to respond to mitogen even in absence of T cells

Immunoglobulins

- Clinard, E. H., 1979, Am. J. Vet. Research, v. 40 (11), 1558-1563
Trichinella spiralis digestion-negative swine, identification and distribution of swine serum immunoglobulins that react with *T. spiralis* antigens and may interfere with enzyme-labeled antibody test

Immunoglobulins

- Cohen, S., 1976, Immunol. Parasit. Infect., 18-34
 immune effector mechanisms, review

Immunoglobulins

- Cornille-Brögger, R.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (2), 173-183
 malaria in normal subjects and those with sickle cell trait, determination of plasma immunoglobulins and antimalarial antibodies, findings suggest that during infancy early phagocytosis of parasitized cells led to enhanced processing of antigen and hence earlier immune response to sickle cell trait

Immunoglobulins

- Cripps, A. W.; and Adams, D. B., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (2), 225-235
Trichostrongylus colubriformis, sheep, immunoglobulin and albumin concentrations and flow of intestinal lymph, anti-worm antibody titres in intestinal lymph and serum, observations indicate occurrence of local antibody response in intestine of immune sheep

Immunoglobulins

- Cripps, A. W.; and Steel, J. W., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (2), 181-194
Trichostrongylus colubriformis-infected sheep, immunoglobulin metabolism, concluded that increased synthesis of IgG in resistant sheep continually exposed to *T. colubriformis* occurs as result of antigenic stimulation rather than as consequence of increased loss of plasma into intestine

Immunoglobulins

- Curiel, M.; Chaves, J.; and Torrealba, J. W., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (6), 384-387
Schistosoma mansoni, human, immunoglobulins IgG, IgA, and IgM in sera

Immunoglobulins

- Davis, P. J.; Parry, S. H.; and Porter, P., 1978, *Immunology*, v. 34 (5), 879-888
Eimeria tenella, chickens, serological and secretory immune responses evaluated in terms of various anti-coccidial activities, results suggest that intestinal secretory IgA system plays essential role in protective immune response

Immunoglobulins

- Davis, P. J.; and Porter, P., 1979, *Immunology*, v. 36 (3), 471-477
Eimeria tenella, proposed mechanism for secretory IgA-mediated inhibition of cell penetration and intracellular development

Immunoglobulins

- Day, K. P.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 217-239
Nippostrongylus brasiliensis vs. *Nematospiroides dubius*, several features of intestinal stages in mice, complexity of worm excretory/secretory (ES) products and efficacy in induction of resistance, comparison of ES products with respect to in vitro T and B cell mitogenicity, capacity to induce and/or elicit delayed type hypersensitivity responses, and capacity to induce reaginic and precipitating antibody responses

Immunoglobulins

- Dessaint, J. P.; et al., 1979, *Cellular Immunol.*, v. 46 (1), 12-23
 binding characteristics of IgE on surface of rat macrophages, characterization of IgE on surface of macrophages from *Schistosoma mansoni*-infected rats

Immunoglobulins

- Dessaint, J. P.; et al., 1979, *Cellular Immunol.*, v. 46 (1), 24-34
 immunologic release of lysosomal enzyme from macrophages by IgE and anti-IgE in the rat, new mechanism of macrophage activation, implications for mechanism of antibody-dependent macrophage cytotoxicity in rat schistosomiasis

Immunoglobulins

- Diffley, P.; and Honigberg, B. M., 1978, *J. Parasitol.*, v. 64 (4), 674-681
Trypanosoma congolense, identification and quantitation of host albumin, nonspecific IgG, and complement (C3) bound to surface of bloodstream forms, possible functions for these surface-bound plasma proteins

Immunoglobulins

- Digeon, M.; et al., 1979, *Clin. and Exper. Immunol.*, v. 35 (3), 329-337
Schistosoma mansoni, mice, IgG and IgM but not IgA anti-schistosome antibodies, circulating immune complexes containing schistosomal antigen, glomerular mesangial deposits of IgA, IgM, and C3

Immunoglobulins

- Dineen, J., 1978, *Immunol. Series*, v. 7, 211-257
 helminthiasis, role of homocytotropic antibodies in immunity and pathology with special reference to induction and potentiation of IgE production, review

Immunoglobulins

- Dodd, B. E.; et al., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (5), 501-505
Trypanosoma brucei brucei-infected rabbits, application of build-up anti-globulin technique for detection of immunoglobulin on surface of red cells

Immunoglobulins

- Duncan, J. L.; Smith, W. D.; and Dargie, J. D., 1978, *Vet. Parasitol.*, v. 4 (1), 21-27
Haemonchus contortus, sheep, vaccination protected against challenge and was associated with raised levels of abomasal mucus IgA and serum IgG antibodies in adults but lambs were not protected and did not have raised levels of these antibodies, possible implications for immune unresponsiveness of lambs

Immunoglobulins

- El-Sawy, M.; et al., 1979, *NATO Advanced Study Inst. Ser., s. A, Life Sc.*, v. 24, 277-279
 schistosomiasis in patients with and without neurological symptoms, circumoval precipitin test, indirect haemagglutination test, and immunoglobulins in serum and cerebrospinal fluid

Immunoglobulins

- Ershov, V. S.; and Naumycheva, M. I., 1978, *Vestnik Sel'skokhoz. Nauki* (266) (11), 13-20
 helminth-parasitized animals, sensitization, tests for IgE, review

Immunoglobulins

- Fiorillo, A. M.; da Costa, J. C.; and Passos, J., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (6), 371-376
Schistosoma mansoni, human chronic infections, identification of hemagglutinating antibodies using indirect hemagglutination test with tannic acid-treated red blood cells sensitized with worm extract, antibodies identified as type 7S, probably IgG

Immunoglobulins

- Freeman, R. R.; and Parish, C. R., 1978, *Clin. and Exper. Immunol.*, v. 32 (1), 41-45
Plasmodium berghei, P. yoelii, mice, numbers of 'background' plaque-forming cells secreting IgM specific for either sheep or horse erythrocytes elevated in spleens during infection or in spleens of uninfected mice injected with non-infectious extracts of parasitized mouse red blood cells, results provide corroborating evidence for hypothesis that B-cell mitogen is associated with blood stage of malaria parasites, possible involvement in immunosuppression

Immunoglobulins

- Fujisaki, K., 1978, *National Inst. Animal Health Quart.*, v. 18 (1), 27-38
Haemaphysalis longicornis, rabbits subjected to series of infestations with adult female ticks, development of acquired resistance and precipitating antibody (7S class of immunoglobulin)

Immunoglobulins

- Fujiwara, M.; and Kishimoto, S., 1979, *J. Immunol.*, v. 123 (1), 263-268
 aged (vs. young adult) mice exhibit depressed IgE, IgG, and IgM antibody response to DNP-Ascaris and depressed avidity of IgE antibody for DNP determinant

Immunoglobulins

- Ganguly, N. K.; et al., 1978, Indian J. Med. Research, v. 67, 221-226
Entamoeba histolytica, quantitative levels of immunoglobulins (IgG, IgM and IgA) and complement (C3 and CH₅₀) estimated in persons with amoebic abscesses or amoebic colitis, values compared with normal controls, prognostic values of these parameters discussed

Immunoglobulins

- Giannini, M. S.; and D'Alesandro, P. A., 1978, Science (4359), v. 201, 916-918
Trypanosoma lewisi forms caps at 0°C when incubated with rabbit IgG directed against surface IgG from rat host, host IgG (which is specific for parasite antigens) probably does not cause capping of these antigens in vivo

Immunoglobulins

- Giannini, S. H.; and D'Alesandro, P. A., 1979, Exper. Parasitol., v. 47 (3), 342-355
Trypanosoma lewisi, accumulation of antigen-specific host IgG as component of surface coat during course of infection in rat

Immunoglobulins

- Gill, G. V.; Bell, D. R.; and Fifield, R., 1979, Clin. and Exper. Immunol., v. 37 (2), 292-294
Strongyloides stercoralis, British ex-Far East prisoners of war with longstanding infections, lack of immunoglobulin E response

Immunoglobulins

- Glickman, L. T.; Schantz, P. M.; and Cypess, R. H., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 254-258
Toxocara canis, patients with diagnostic ELISA titres vs. patients with presumed visceral larva migrans but less or no detectable antibody, clinical findings (including leucocytosis, eosinophilia, increased anti-A or anti-B isohaemagglutinin titre, elevated serum IgG level), epidemiological characteristics (age, sex, northern vs. southern residence, history of pica)

Immunoglobulins

- Goldman, M.; and Pipano, E., 1978, Tropenmed. u. Parasitol., v. 29 (1), 85-87
Theileria annulata, specific IgM and IgG antibodies detected in immunized or infected cattle

Immunoglobulins

- Goodger, B. V., 1978, Ztschr. Parasitenk., v. 55 (1), 1-8
Babesia bovis-infected splenectomized and intact calves, changes in fibrinogen, plasminogen, and IgG₂ in saline eluates from sucrose-washed erythrocytes and in plasma, relationship to coagulation, fibrinolysis, and blood agglutination

Immunoglobulins

- Greenwood, B. M.; Oduloju, A. J.; and Plattsmills, T. A. E., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 178-182
Plasmodium falciparum-infected human red blood cells, supernatants from cultures stimulated lymphocytes from both malaria immune and malaria-non-immune donors, parasite-derived mitogen may play role in pathogenesis of hypergammaglobulinaemia

Immunoglobulins

- Guimaraes, M. C. S.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 350-353
 comparison of IgG and IgM contents in serum vs. filter paper blood eluates

Immunoglobulins

- Hansen, R.; de Silva, S.; and Strickland, G. T., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (5), 574-578
Plasmodium berghei, IgM and IgG antisporezoite antibodies in mice immunized with irradiation-attenuated sporozoites, detection by indirect fluorescent antibody test, correlation with protection, some cross-reaction with blood stage antigens but test should still prove useful

Immunoglobulins

- Harris, W. G.; Friedman, M. J.; and Bray, R. S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 427-430
Entamoeba histolytica, human, prevalence, parasite-specific IgG and IgM, and total and parasite-specific IgE during 4-month wet season: The Gambia

Immunoglobulins

- Hartmann, D. P.; and Meerovitch, E., 1979, Clin. Immunol. and Immunopathol., v. 14 (4), 467-473
Entamoeba histolytica, evidence of autologous IgG reacting with anti-amoebic antibodies in human sera

Immunoglobulins

- Howell, M. J.; and Sandeman, R. M., 1979, Internat. J. Parasitol., v. 9 (1), 41-45
Fasciola hepatica, precipitate which forms when metacercariae are cultured in immune rat serum is a complex of parasite metabolic antigen and rat Ig (possibly IgG), vaccination of rats with precipitate in FCA confers significant degree of protection

Immunoglobulins

- Hsu, S. Y. L.; et al., 1979, Internat. Arch. Allergy and Applied Immunol., v. 59 (4), 383-393
Schistosoma japonicum, IgE, mast cells, and eosinophils in skin of *Macaca mulatta* immunized with X-irradiated cercariae

Immunoglobulins

- Hudson, R.; Kitts, W. D.; and Bandy, P. J., 1971, J. Wildlife Dis., v. 7 (3), 171-174
Ovis canadensis, immunoglobulin response, effects of individual variation, season, and parasite activity

Immunoglobulins

- Hunponu-Wusu, O. O.; et al., 1978, J. Trop. Med. and Hyg., v. 81 (2-3), 42-44
 measurement of levels of immunoglobulin M and determination of relationships to levels of malarial antibodies in normal subjects living in a holoendemic malarial region: Nigeria

Immunoglobulins

- Ishizaka, K.; Ishizaka, T.; and Takatsu, K., 1977, Progr. Immunol. III, 378-385
 B and T cells involved in IgE antibody response, regulation of IgE antibody response through B and T cells, review

Immunoglobulins

- Ishizaka, K.; and Kishimoto, T., 1973, Immunol. Series, v. 1, 63-81
cellular basis of reaginic antibody formation in vitro, DNP-*Ascaris suum* used as antigen

Immunoglobulins

- Ishizaka, K.; and Kishimoto, T., 1978, Immunol. Series, v. 7, 165-188
cellular mechanisms for secondary IgE antibody response in vitro by rabbit lymph node cells, review, DNP-*Ascaris suum* as one of antigens used

Immunoglobulins

- Ishizaka, K.; Okudaira, H.; and Takatsu, K., 1978, Immunol. Series, v. 7, 127-164
IgE antibody response in inbred mice, review, DNP-*Ascaris suum* as one of antigens used, also includes some information on *Nippostrongylus brasiliensis*

Immunoglobulins

- Itaya, T.; and Ovary, Z., 1979, J. Exper. Med., v. 150 (3), 507-516
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, interaction of primed and unprimed T cells

Immunoglobulins

- Jacqueline, E.; et al., 1978, Exper. Parasitol., v. 45 (1), 42-54
Trichinella spiralis, infected or immunized mice, rats, and miniature pigs, humoral and secretory immunoglobulins active in inhibition of production of larvae

Immunoglobulins

- Jarrett, E. E. E., 1978, Immunol. Rev., v. 41, 52-76
Nippostrongylus brasiliensis, stimuli for production and control of IgE in rats, review

Immunoglobulins

- Jarrett, E. E. E.; and Bazin, H., 1977, Clin. and Exper. Immunol., v. 30 (2), 330-332
Nippostrongylus brasiliensis, rats, serum immunoglobulin levels at various times after infection or re-infection, levels of other Ig (sub)classes increase but increments are modest by comparison with IgE and occur at different times

Immunoglobulins

- Jensen, P. T.; and Nansen, P., 1978, Acta Vet. Scand., v. 19 (4), 601-603
ostertagiasis, calves, serum levels of immunoglobulins, albumin, total protein, and pepsinogen

Immunoglobulins

- Joseph, M.; et al., 1978, Clin. and Exper. Immunol., v. 33 (1), 48-56
Schistosoma mansoni, cytotoxicity of human and baboon mononuclear phagocytes against schistosomula in vitro, induction by immune complexes containing IgE and parasite antigens

Immunoglobulins

- Kanamura, H. Y.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 242-248
Schistosoma mansoni, human, correlation of class-specific circulating antibodies with clinical forms of disease and with fluorescence patterns developed in sections of both worms and liver granulomata

Immunoglobulins

- Kanamura, H. Y.; Hoshino-Shimizu, S.; and da Silva, L. C., 1978, Rev. Inst. Med. Trop. S. Paulo, v. 20 (2), 76-81
Schistosoma mansoni, human, pattern of class-specific fluorescent antibodies according to infection stages, hemagglutination test comparisons

Immunoglobulins

- Katz, D. H.; et al., 1979, J. Immunol., v. 122 (6), 2184-2190
regulation of IgE antibody production by serum molecules, complete Freund's adjuvant induces both enhancing and suppressive activities detectable in the serum of low and high responder mice, DNP-*Ascaris* used as antigen

Immunoglobulins

- Katz, D. H.; et al., 1979, J. Immunol., v. 122 (6), 2191-2197
regulation of IgE antibody production by serum molecules, evidence that coincidental sensitization and imbalance in the normal damping mechanism results in "allergic breakthrough", DNP-*Ascaris* used as antigen

Immunoglobulins

- Kemp, W. M.; Merritt, S. C.; and Rosier, J. G., 1978, Exper. Parasitol., v. 45 (1), 81-87
Schistosoma mansoni, identification of immunoglobulin classes associated with tegument of adult parasites from mice

Immunoglobulins

- Kien, T.; et al., 1978, Microbia, v. 4 (3), 43-50
toxoplasmosis, human, diagnosis, evaluation of fluorescent anti-IgM conjugates in Remington reaction, results proved lack of specificity of some conjugates

Immunoglobulins

- Kloetzel, J.; and Deane, M. P., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 397-402
Trypanosoma cruzi, immunofluorescence of F vs. Y strain, host immunoglobulins attached to surface of F strain, capping of immunoglobulins during differentiation in culture medium

Immunoglobulins

- Kondo, K.; et al., 1977, Kiseichugaku Zasshi [Japan. J. Parasitol.], v. 26 (4), 265-270
Diphyllobothrium latum, human, serum immunoglobulin levels, precipitation tests (Ouchterlony, immunoelectrophoresis)

Immunoglobulins

- Laltoo, H.; Van Zoost, T.; and Kind, L. S., 1979, Immunol. Commun., v. 8 (1), 1-9
Myocoptes musculus, mice, positive skin test to mite antigens, kinetics of IgE antibody response to mite antigens, mast cell degranulation by mite extract

Immunoglobulins

- Levi, R.; Zavecz, J. H.; and Ovary, Z., 1978, Internat. Arch. Allergy and Applied Immunol., v. 57 (6), 529-534
IgE-mediated cardiac hypersensitivity reactions, experimental model, DNP-*Ascaris* used as antigen

Immunoglobulins

- Lloyd, S.; and Soulsby, E. J. L., 1978, *Immunology*, v. 34 (5), 939-945
Taenia taeniaeformis, mice, passive transfer of protection with intestinal, colostrum, or serum immunoglobulins, protective capacity found to be associated mainly with IgA of colostrum and intestinal secretions and IgG of serum

Immunoglobulins

- Luckins, A. G.; et al., 1979, *Trop. Animal Health and Prod.*, v. 11 (1), 1-12
Trypanosoma evansi, camels (nat. and exper.), indirect fluorescent antibody test and micro-scale enzyme linked immunosorbent assay compared with tests for detection of raised euglobulin levels: Sudan

Immunoglobulins

- Luckins, A. G.; Gray, A. R.; and Rae, P., 1978, *Ann. Trop. Med. and Parasitol.*, v. 72 (5), 429-441
Trypanosoma evansi, rabbits, serodiagnosis, comparison of serum immunoglobulin levels, enzyme-linked immunosorbent assay, and fluorescent antibody test

Immunoglobulins

- Luckins, A. G.; and Mehlitz, D., 1978, *Trop. Animal Health and Prod.*, v. 10 (3), 149-159
trypanosomiasis, cattle, diagnosis, indirect fluorescent antibody test, enzyme-linked immunosorbent assay, and serum IgM levels compared: Liberia

Immunoglobulins

- Mackenzie, C. D.; et al., 1977, *Clin. and Exper. Immunol.*, v. 30 (1), 97-104
Schistosoma mansoni, antibody (IgG)-mediated adherence of rat eosinophils to schistosomula in vitro with consequent damage to parasite

Immunoglobulins

- MacKenzie, M. R.; Warner, N. L.; and Mitchell, G. F., 1978, *J. Immunol.*, v. 120 (5), 1493-1496
 binding of immunoglobulins from *Taenia taeniaeformis* and *Mesocostoides corti*-infected mice to staphylococcal protein A

Immunoglobulins

- MacKenzie, P. K. I.; Boyt, W. P.; and Nesham, V. W., 1979, *Brit. Vet. J.*, v. 135 (2), 178-184
trypanosomiasis, sheep (nat. and exper.), serum immunoglobulin levels during course of infection

Immunoglobulins

- Madwar, M. A.; et al., 1978, *Clin. and Exper. Immunol.*, v. 34 (3), 354-358
S[chistosoma] mansoni, *S. haematobium*, humans, concentrations of complement components and immunoglobulins in sera, implications for immunopathological effects of schistosomiasis and for heterogeneity of antigen clearance

Immunoglobulins

- Magnani, M. A. C.; Ferriolli, F. (filho); and de Siqueira, A. F., 1973, *Rev. Inst. Med. Trop. S. Paulo*, v. 15 (2), 72-75
Trypanosoma cruzi, human sera, indirect immunofluorescence used for detection of specific immunoglobulin levels (IgA, IgG, IgM)

Immunoglobulins

- Mak, J. W.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 395-399
Brugia malayi, and *Wuchereria bancrofti*, humans, immunoglobulin levels and complement components determined in populations in various endemic areas in Peninsular Malaysia

Immunoglobulins

- Mancino, D.; and Bevilacqua, N., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (4), 427-431
 adjuvant effect of amorphous silica vs. aluminum hydroxide on IgE antibody production in mice, dinitrophenylated *Ascaris* extract used as immunogen

Immunoglobulins

- Mangenot, M.; et al., 1979, *Med. Trop.*, v. 39 (5), 531-535
 African *trypanosomiasis*, humans, possible use of immunoglobulin assay in confirming diagnosis (increased IgG and IgM) in persons suspected to be infected after testing with immunofluorescence or ELISA

Immunoglobulins

- Manning, D. D.; Manning, J. K.; and Reed, N. D., 1976, *J. Exper. Med.*, v. 144 (1), 288-292
Nippostrongylus brasiliensis, mice, suppression of reagenic antibody (IgE) formation by treatment with anti- μ antiserum, supports hypothesis that IgE-producing cells arise from IgM-bearing precursors

Immunoglobulins

- Mannweiler, E.; Lederer, I.; and zum Felde, I., 1978, *Zentralbl. Bakteriол.*, 1. Abt. Orig., Reihe A, v. 240 (3), 397-402
[Leishmania] donovani-infected humans, increased IgG levels, *L. donovani*, *L. brasiliensis*, and *L. tropica* antigens used in comparison of immunological diagnostic methods studying antibody titers, indirect haemagglutination test unsuitable for diagnosis

Immunoglobulins

- Marretta, J.; and Casey, F. B., 1979, *Immunology*, v. 37 (3), 609-613
Ascaris suum, *Nippostrongylus brasiliensis*, effect on potentiation of IgE response in guinea pigs

Immunoglobulins

- Marretta, J.; and Casey, F. B., 1979, *J. Immunol. Methods*, v. 31 (1-2), 183-185
Ascaris suum, guinea pigs, dependence of IgE and IgG₁ immune responses on inclusion of potassium in preparation of alum adjuvant

Immunoglobulins

- Mayrhofer, G., 1977, *Ciba Found. Symp.*, n.s. (46), 155-182
Nippostrongylus brasiliensis-infected rats, sites of synthesis and localization of IgE

Immunoglobulins

- Miller, H. R. P.; Nawa, Y.; and Parish, C. R., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (3), 281-285
Nippostrongylus brasiliensis-infected rats adoptively immunized with different subpopulations of immune thoracic duct lymphocytes, intestinal goblet cell response, cells lacking surface immunoglobulin were most potent stimulators of goblet cell differentiation

Immunoglobulins

- Mitchell, G. F., 1979, *Advances Immunol.*, v. 28, 451-511
immunological and 'paraimmunological' responses to infection with metazoan and protozoan parasites in mouse models, extensive review

Immunoglobulins

- Miyamoto, T.; et al., 1975, *Kiseichugaku Zasshi (Japan. J. Parasitol.)*, v. 24 (4), 220-226
Schistosoma japonicum, humans, total IgE by single radial immunodiffusion method, specific IgE by radioallergosorbent test, threshold values of skin tests: Yamanashi Prefecture

Immunoglobulins

- Molinari, J. A.; Ebersole, J. L.; and Cypess, R. H., 1978, *J. Parasitol.*, v. 64 (2), 233-238
Heligmosomoides polygyrus, mice, oral infection and challenge, serum protein levels, immunoglobulin levels, specific antibody levels

Immunoglobulins

- Molineaux, L.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (4), 301-310
sickle cell disease subjects living in hyperendemic malarial area, numbers of malaria-infected persons, seroimmunologic test results, immunoglobulin levels, and age groups compared with subjects without sickle cell trait: Sudan savanna of Nigeria

Immunoglobulins

- Molyneux, M. E.; et al., 1979, *J. Trop. Med. and Hyg.*, v. 82 (9-10), 183-187
malarial and schistosomal antibodies and serum immunoglobulin concentrations in patients with massive splenomegaly measured, discussion of problems in diagnosis of gross splenomegaly in areas where schistosomiasis and malaria coexist: Malawi

Immunoglobulins

- Naik, S. R.; et al., 1979, *Trop. and Geogr. Med.*, v. 31 (4), 493-498
Giardia lamblia, humans, no immunodeficient basis for endemic giardiasis found in comparative survey of immunoglobulins in serum and duodenal juice and of T and B lymphocyte sub-populations of infected vs. non-infected persons: North India

Immunoglobulins

- Nash, T. E., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 939-943
Schistosoma spp., human, specific IgM and IgG antibody response to polysaccharide antigen present in schistosome gut, indirect immunofluorescent technique, easily performed reliable diagnostic test with high sensitivity and specificity

Immunoglobulins

- Nash, T. E.; Ottesen, E. A.; and Cheever, A. W., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 944-950
Schistosoma mansoni, *S. haematobium*, 4 clinically different groups of patients, total IgG and IgM levels, specific IgM and IgG antibody to polysaccharide antigen present in schistosome gut, modulation of antibody response appears primarily dependent on infection duration, total Ig levels depend on infection duration and intensity

Immunoglobulins

- Nawa, Y.; Parish, C. R.; and Miller, H. R. P., 1978, *Cellular Immunol.*, v. 37 (1), 41-50
Nippostrongylus brasiliensis, immune thoracic duct lymphocytes fractionated into cells lacking or bearing surface immunoglobulin, protective capacities of each subpopulation examined

Immunoglobulins

- Nielsen, K.; et al., 1978, *Immunology*, v. 35 (5), 811-816
Trypanosoma congolense-infected calves, changes in catabolism of serum immunoglobulins and complement components, possible relationship to pathological changes

Immunoglobulins

- Nielsen, K.; et al., 1978, *Immunology*, v. 35 (5), 817-826
Trypanosoma congolense-infected calves, changes in serum immunoglobulins, complement, and complement components

Immunoglobulins

- Nishino, C., 1977, *Sapporo Igaku Zasshi (Sapporo Med. J.)*, v. 46 (2), 73-88
Anisakis, humans, epidemiologic survey, comparison of skin test, indirect hemagglutination, and serum IgE levels in randomly selected local inhabitants and in patients with anisakiasis, higher positive rates in workers in fishing industries than in those in farming industries: Hokkaido

Immunoglobulins

- de Oliveira, A. R.; and Penha, A. M., 1978, *Arq. Inst. Biol.*, Sao Paulo, v. 45 (3), 191-195
nematodes, calves (Holstein x Zebu, exper.), electrophoresis of serum protein (total and fraction) changes

Immunoglobulins

- Onyewotu, I. I., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (4), 386-388
circulating immune complexes in 38 to 50 apparently healthy Nigerians, 6 of these 38 had significant anti-complementary activity and high IgM levels, 5 of these 6 showed malarial parasitemia, 4 of these 6 after malarial prophylaxis lost their anti-complementary activity with parallel fall in IgM

Immunoglobulins

- Oomen, J. M. V.; Meuwissen, J. H. E. T.; and Gemert, W., 1979, *Trop. and Geogr. Med.*, v. 31 (4), 587-606
males of 3 ethnic groups and 3 age groups inhabiting same locality, haematological status (including anemia), spleen and liver enlargement, immunoglobulin status, malaria parasite rates, other parasite infections, possible associations between these and other factors (including nutrition, sickle cell trait, altered immune response to malaria): Northern Nigeria

Immunoglobulins

- Oswal, S.; et al., 1979, v. 70, 407-411
hookworm, hospital patients, serum and intestinal immunoglobulin levels, relationship to ova load

Immunoglobulins

- Ovary, Z.; et al., 1978, *Immunol. Rev.*, v. 41, 26-51
Nippostrongylus brasiliensis, regulation of IgE in mice, review

Immunoglobulins

- Partono, F.; et al., 1978, J. Trop. Med. and Hyg., v. 81 (12), 252-254
Wuchereria bancrofti, human, serum immunoglobulin levels, persons with and without clinical manifestations and with and without microfilaremia: Jakarta, Indonesia

Immunoglobulins

- Patton, S.; et al., 1978, Am. J. Vet. Research, v. 39 (1), 19-23
Strongylus vulgaris, ponies (exper.), changes in serum proteins, increased IgT concentration, repeated exposure to small doses of larvae resulted in a significant degree of acquired resistance against a challenge dose

Immunoglobulins

- Pinon, J. M.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 318-324
 hydatidosis, human, evaluation of immunoelectrodiffusion test (IED) vs. immunoelectrophoresis and indirect hemagglutination, sensitivity of IED increased and classes of immunoglobulins defined by combining enzymatic labelling with IED resulting in ELIEDA (enzyme-linked immunoelectrodiffusion assay)

Immunoglobulins

- Playfair, J. H. L.; and De Souza, J. B., 1979, Parasite Immunol., v. 1 (3), 197-208
Plasmodium yoelii- or *P. berghei*-vaccinated mice, immunofluorescent antibody response with particular reference to antibody class and subclass, correlation with protection, passive transfer experiments, effect of macrophage stimulation and inhibition on antibody and on protection

Immunoglobulins

- Poletaeva, O. G., 1976, Med. Parazitol. i Parazit. Bolezni, v. 45 (2), 143-148
Ascaris suum-infected laboratory animals, reagin-like antibody detected by passive dermal anaphylaxis test and by direct degranulation of mast cells; antibody appeared to belong to IgE; suggested that it participates in host protective response

Immunoglobulins

- Prowse, S. J.; et al., 1979, Parasite Immunol., v. 1 (4), 277-288
Nematospiroides dubius, 7 inbred strains of mice, differences in natural resistance to primary infection and in development of resistance to challenge infection, host sex differences, IgG₁ and IgG_{2a} concentrations

Immunoglobulins

- Prowse, S. J.; Ey, P. L.; and Jenkin, C. R., 1978, Austral. J. Exper. Biol. and Med. Sc., v. 56 (2), 237-246
Nematospiroides dubius, mice, one or more immunizing infections, development of immunity, absolute and differential cell levels in blood and peritoneum, serum concentrations of various immunoglobulin classes, results suggest that macrophages and eosinophils may play separate roles in immunity to this parasite

Immunoglobulins

- Przyjalkowski, Z.; Bany, J.; and Golinska, Z., 1978, Bull. Acad. Polon. Sc., Cl. II, s. Sc. Biol., v. 26 (5), 325-329
Trichinella pseudospiralis, germfree and conventional mice, immunoglobulin and haemagglutinating antibody levels compared

Immunoglobulins

- Pyndiah, N.; et al., 1979, J. Clin. Microbiol., v. 9 (2), 170-174
 simplified chromatographic separation of IgM from IgG and its application to diagnosis of *Toxoplasma gondii* by indirect immunofluorescence

Immunoglobulins

- Ramalho-Pinto, F. J.; De Rossi, R.; and Smithers, S. R., 1979, Parasite Immunol., v. 1 (4), 295-308
Schistosoma mansoni, mice, anti-schistosomula antibodies and IgG subclasses involved in complement- and eosinophil-mediated killing of schistosomula in vitro

Immunoglobulins

- Ray, D.; and Saha, K., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 503-507
 tropical pulmonary eosinophilia, human, serum immunoglobulin and complement levels, correlation with primary and relapsing stages of illness: India

Immunoglobulins

- Rector, E. S.; et al., 1979, European J. Immunol., v. 9 (6), 471-476
Nippostrongylus brasiliensis-infected rats, enumeration of IgE-secreting cells using reverse plaque-forming cell assay

Immunoglobulins

- Reese, R. T.; and Motyl, M. R., 1979, J. Immunol., v. 123 (4), 1894-1899
Plasmodium falciparum, inhibition of in vitro growth by immune serum and purified immunoglobulin from *Aotus* sp.

Immunoglobulins

- Rezai, H. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1079-1083
 kala-azar, children, serum immunoglobulin and complement levels, percentage of T and B cells, skin reactivity to *Leishmania* antigen

Immunoglobulins

- Ribeiro dos Santos, R.; et al., 1979, Tropenmed. u. Parasitol., v. 30 (1), 19-23
[Trypanosoma] cruzi-infected humans, presence of IgG and IgM antibodies to neurons demonstrated by immunofluorescence

Immunoglobulins

- Richard-Lenoble, D.; et al., 1978, Ann. Trop. Med. and Parasitol., v. 72 (6), 553-560
 hydatidosis, human, serodiagnosis (radioimmunoassay, indirect haemagglutination, immuno-electrodiffusion), subclasses of specific anti-hydatid immunoglobulin, detection of circulating immune complexes

Immunoglobulins

- Rosenberg, Y. J.; and Evans, C. B., 1979, Nature, London (5729), v. 281, 302-304
Babesia microti, mice suppressed for IgM production, resistance to infection as reflected by virtual absence of parasites in peripheral circulation

Immunoglobulins

- Rousseaux-Prevost, R.; et al., 1978, Immunology, v. 55 (1), 55-59
Schistosoma mansoni in 2 strains of rat, time course of occurrence of specific IgE antibodies, correlation with protective immunity

Immunoglobulins

- Rousseaux-Prevost, R.; et al., 1979, Clin. and Exper. Immunol., v. 38 (2), 389-393
Dipetalonema viteae, rats infected with L3 larvae, serum IgE levels

Immunoglobulins

- Rowecka-Trzebicka, K.; et al., 1979, Pediat. Polska, v. 54 (7), 687-691
Pneumocystis carinii, infants, pneumonia, pulmonary aspiration biopsy and presence of IgM and IgG in serum confirm diagnosis

Immunoglobulins

- Ruitenbergh, E. J.; and Buys, J., 1979, Vet. Parasitol., v. 5 (1), 73-78
Trichinella spiralis, pigs, analyses for IgE performed by homologous passive cutaneous anaphylactic reactions and for IgG by enzyme linked immunosorbent assay, possible significance of findings for early diagnosis of infections

Immunoglobulins

- Saha, K.; et al., 1979, Indian J. Med. Research, v. 70, 22-32
parasitic diseases, human, serum immunoglobulin and complement profile: India

Immunoglobulins

- Salih, S. Y.; Voller, A.; and Woodruff, A. W., 1978, Tropenmed. u. Parasitol., v. 29 (3), 269-274 [Erratum v. 30 (1), 1979, 130]
Schistosoma mansoni patients showing different clinical forms of infection and S. haematobium patients before treatment and 6 weeks after treatment with hycanthone, comparison of immunoglobulin levels

Immunoglobulins

- Santoro, F.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (3), 156-160
Schistosoma mansoni, sera from infected patients, characterization and quantitation of immunoglobulins present in immune complexes

Immunoglobulins

- Santoro, F.; et al., 1979, J. Immunol., v. 123 (4), 1551-1557
Schistosoma mansoni, activation of complement by schistosomula: killing of parasites by alternative pathway and requirement of IgG for classical pathway activation

Immunoglobulins

- dos Santos, R. R.; and Marquez, J. O., 1977, Rev. Neurol. Argentina, v. 3 (3), 439-442
Trypanosoma cruzi, human, physiopathology of neuronal destruction, presence of IgG and IgM antibodies to neurons discovered in human serum, sequence to pathologic events detailed in infected mice

Immunoglobulins

- Scaglia, M.; et al., 1979, Internat. Arch. Allergy and Applied Immunol., v. 59 (4), 465-468
intestinal parasite load in relation to serum IgE levels in individuals from 2 ethnic groups from North and South Rwanda

Immunoglobulins

- Schmunis, G. A.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 473-477
Trypanosoma cruzi, humans, immunoglobulin M, G, and A concentrations in treated acute Chagas' disease

Immunoglobulins

- Schmunis, G. A.; Averbach, S.; and Averbach, B., 1976, Rev. Asoc. Bioquim. Argent. (224), v. 41, 43-50
Toxoplasma gondii, evaluation of detection of immunoglobulin M for diagnosis using the immunofluorescence test, concluded that detection of IgM is helpful but should be used in conjunction with other diagnostic procedures

Immunoglobulins

- Shcheulov, A. P., 1974, Parazitologiya, Leningrad, v. 8 (6), 553-562
Toxoplasma gondii, rabbits immunized with high vs. low virulence strain, immunodiffusion and complement fixation tests, serum protein fractions

Immunoglobulins

- Shear, H. L.; Nussenzweig, R. S.; and Bianco, C., 1979, J. Exper. Med., v. 149 (6), 1288-1298
Plasmodium berghei-infected mice, phagocytosis of erythrocytes by spleen macrophages appears to be mediated by Ig on surface; other indications of spleen macrophage activation; phagocytosis is inhibited later in infection by serum factors possibly immune complexes; high levels of anti-Forssman antibodies

Immunoglobulins

- Sinski, E.; and Holmes, P. H., 1978, J. Parasitol., v. 64 (1), 189-191
Nippostrongylus brasiliensis, radioimmunoassay to measure local and circulating specific IgG and IgA antibody responses in rats

Immunoglobulins

- Smith, H. V.; Herbert, I. V.; and Davis, A. J., 1979, Immunology, v. 38 (4), 659-664
Hyostrongylus rubidus, pigs, primary infection, numbers of immunoglobulin-positive cells in stomach

Immunoglobulins

- Smith, W. D.; and Christie, M. G., 1978, Internat. J. Parasitol., v. 8 (3), 219-223
Haemonchus contortus, sheep, immunization with irradiated larvae, resistance to challenge infection was associated with increased concentrations of IgG antibodies in serum as well as IgA and IgG antibodies in abomasal mucosa

Immunoglobulins

- Storey, J.; et al., 1979, Ann. Trop. Med. and Parasitol., v. 73 (4), 311-315
malaria, immunoglobulins and antimalarial antibodies in haemoglobin AC individuals, little difference from rest of population except for higher IgG levels, suggests that haemoglobin C gene's geographical relationship to malaria may be coincidence: Sudan savanna of Nigeria

Immunoglobulins

- Stromberg, B. E., 1979, Immunology, v. 38 (3), 489-495
Ascaris suum, new allergen (ACF antigen) obtained from developing larvae maintained in chemically defined culture medium, production of IgE and IgG1 antibodies in guinea-pigs, importance of route of administration

Immunoglobulins

- Suemura, M.; and Ishizaka, K., 1979, *J. Immunol.*, v. 123 (2), 918-924
Nippostrongylus brasiliensis, potentiation of IgE response in vitro by T cells from infected rats

Immunoglobulins

- Suemura, M.; Urban, J. F., jr.; and Ishizaka, K., 1978, *J. Immunol.*, v. 121 (6), 2413-2421
Nippostrongylus brasiliensis, development of IgE-forming cells in vitro from rat mesenteric lymph node cells

Immunoglobulins

- Tada, T., 1978, *Immunol. Series*, v. 7, 101-126
 cellular interactions involved in initiation and suppression of IgE synthesis in rats, review, DNP-*Ascaris suum* as one of antigens used, also includes mention of potentiated reagin formation by *Nippostrongylus brasiliensis* infection

Immunoglobulins

- Tada, T.; Okumura, K.; and Taniguchi, M., 1973, *Immunol. Series*, v. 1, 43-61
 cellular and humoral controls of reaginic antibody synthesis in the rat, dinitrophenylated *Ascaris suum* extract used as immunizing antigen

Immunoglobulins

- Teixeira, A. R. L.; et al., 1978, *J. Clin. Invest.*, v. 62 (6), 1132-1141
Trypanosoma cruzi, children with apparent vs. inapparent acute Chagas' disease, clinical and laboratory findings, humoral antibody response, delayed-type skin responses, inhibition of leukocyte migration, serum proteins and immunoglobulins; demonstration of cell-mediated immunodepression in inapparent acute disease

Immunoglobulins

- Terziiski, A.; and Dragneva, N., 1976, *Khel'mintologiya, Sofia*, v. 1, 99-104
Ascaris suum, guinea pigs, immunization per os and parenterally, comparison of host response, results suggest that not serum antibodies but other antibodies (IgA) or other mechanisms play essential role in oral immunization with *Ascaris* antigen

Immunoglobulins

- Torpiet, G.; Capron, A.; and Ouassiss, M. A., 1979, *Nature, London* (5703), v. 278, 447-449
Schistosoma mansoni, receptor for IgG(Fc) and human β_2 -microglobulin on schistosomula

Immunoglobulins

- Traub, N.; et al., 1978, *East African Med. J.*, v. 55 (10), 477-481
Trypanosoma brucei rhodesiense, human congenital, fatal infection in mother, infant successfully treated with suramin and mel-B, immunoglobulin levels at diagnosis, during treatment, and post-treatment, case reports: Zambia

Immunoglobulins

- Turner, K. J.; Feddema, L.; and Quinn, E. H., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 58 (2), 232-236
Ascaris lumbricoides, *Necator americanus*, non-specific potentiation of IgE by parasitic infections in man

Immunoglobulins

- Turner, K. J.; Quinn, E. H.; and Anderson, H. R., 1978, *Immunology*, v. 35 (2), 281-288
 asthmatic subjects from Papua New Guinea had total serum IgE levels higher than Caucasian asthmatics but similar levels of IgE antibody to mite antigens, mite-specific antibody levels were independent of those to *Ascaris* and hookworm, implications for possible mechanism of regulation of asthma by intestinal parasites

Immunoglobulins

- Urban, J. F., jr.; and Ishizaka, K., 1978, *J. Immunol.*, v. 121 (1), 199-203
Nippostrongylus brasiliensis-infected rats, effector mechanisms of IgE-B cell-generating factor

Immunoglobulins

- Urban, J. F., jr.; Ishizaka, T.; and Ishizaka, K., 1978, *J. Immunol.*, v. 121 (1), 192-198
Nippostrongylus brasiliensis-infected rats, source of IgE-B cell-generating factor

Immunoglobulins

- Van Tol, M. J. D.; Veenhoff, E.; and Seijen, H. G., 1978, *J. Immunol. Methods*, v. 21 (1-2), 125-131
 isolation of rabbit IgM in high yield by convenient procedure using serum from *Trypanosoma equiperdum*-infected animals

Immunoglobulins

- Vetter, J. C. M.; and Klaver-Wesseling, J. C. M., 1978, *Ztschr. Parasitenk.*, v. 58 (1), 91-96
Ancylostoma caninum, relationship between IgG antibody binding to outer surface and metabolic state of infective larvae, indirect fluorescent antibody technique

Immunoglobulins

- Waller, T.; Morein, B.; and Fabiansson, E., 1978, *Lab. Animals*, v. 12 (3), 145-148
Encephalitozoon cuniculi, rabbits, humoral immune response following different routes of infection, india-ink immunoreaction test, indirect immunofluorescent antibody test, and immunodiffusion test, immunoglobulin classes involved, possible use of results in eradication program

Immunoglobulins

- Watanabe, N.; Kojima, S.; and Ovary, Z., 1976, *J. Exper. Med.*, v. 143 (4), 833-845
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, non-specific suppressor T cells, characteristic of low and transient IgE antibody response in SJL mice is inherited as recessive trait controlled by single Mendelian autosomal gene and is not linked to H-2 gene complex

Immunoglobulins

- Watanabe, N.; and Ovary, Z., 1977, *J. Exper. Med.*, v. 145 (6), 1501-1510
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, characterization of suppressor substance extracted from normal SJL spleen cells

Immunoglobulins

Watanabe, N.; and Ovary, Z., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (6), 554-559

Nippostrongylus brasiliensis, AKR mice, enhancement of IgE antibody production was obtained by priming helper cells with parasite infection, X-ray irradiation eliminated suppressor cells

Immunoglobulins

Yadav, M.; Shah, F. H.; and Dhaliwal, S. S., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (4), 501-509

elevated serum immunoglobulin levels in Orang Asli population may be related to high level of parasite infection: Malaysia

Immunoglobulins

Yeni, P.; et al., 1978, *Lancet*, London (8057), v. 1, 219-220 [Letter]

human toxoplasmosis, high percentage of false positive results in immunofluorescence detection of IgM anti-Toxoplasma antibodies when serum used for test also contains rheumatoid factor

Immunoglobulins

Yodoi, J.; and Ishizaka, K., 1979, *J. Immunol.*, v. 122 (6), 2577-2583

Nippostrongylus brasiliensis-infected rats, presence of T lymphocytes with Fc receptors specific for IgE

Immunoglobulins

Yodoi, J.; Ishizaka, T.; and Ishizaka, K., 1979, *J. Immunol.*, v. 123 (1), 455-462

Nippostrongylus brasiliensis-infected rats, increase in proportion of lymphocytes bearing Fc receptors for IgE, induction of these Fc-receptor bearing rat lymphocytes by IgE itself in vitro

Immunological deficiency states. See Immunological unresponsiveness.

Immunological tolerance. See Immunological unresponsiveness.

Immunological unresponsiveness

Adams, D. B., 1978, *Austral. J. Exper. Biol. and Med. Sc.*, v. 56 (1), 107-118

Haemonchus contortus, induction of selective immunological unresponsiveness in cells of blood and lymphoid tissue during primary infection may be adaptation enabling nematode to evade immunological reactions of sheep and thereby promote longevity of infections

Immunological unresponsiveness

Aikat, B. K.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (2), 188-192

amoebiasis, human hepatic infections, pathology and pathogenesis based on autopsies, mechanisms of evolution and extension of infections, vascular complications, immunological aberrations

Immunological unresponsiveness

Aitken, M. M.; et al., 1979, *Research Vet. Sc.*, v. 27 (3), 306-312

Fasciola hepatica-infected and non-infected cattle, immune responses to *Salmonella dublin*, *Brucella abortus*, and ovalbumin

Immunological unresponsiveness

Ajao, O. G., 1978, *J. Trop. Med. and Hyg.*, v. 81 (8), 153-155

malaria, overt attacks in humans as cause of post-operative fever, depressed acquired immunity resulting from stress of surgery, recommends routine administration of chloroquine prior to surgical procedures: Nigeria

Immunological unresponsiveness

Akhound-Zadeh, H., 1976, *Rev. Internat. Serv. Sante Armees*, v. 49 (5), 421-426

chronic cutaneous leishmaniasis, soldier with severe ulcers that did not heal despite 8 years of therapy with various anti-leishmanial drugs, chronicity thought to be result of immuno-deficiency, ulcers finally cured after additional therapy with monomycine: Iran (had travelled to Khuzistan)

Immunological unresponsiveness

Albright, J. W.; Albright, J. F.; and Dusanic, D. G., 1978, *Proc. National Acad. Sc.*, v. 75 (8), 3923-3927

Trypanosoma musculi, mice, mechanisms of trypanosome-mediated suppression of humoral immunity, appears that soluble substances derived from parasites act directly on B lymphocytes or essential assistant cells rather than by activating suppressor T cells or macrophages

Immunological unresponsiveness

Ali-Khan, Z., 1978, *Exper. Parasitol.*, v. 46 (2), pp. 157-165

Echinococcus multilocularis-infected mice, specific and nonspecific cell-mediated immune responses at various time intervals, data indicate that mice with chronic hydatidosis exhibit depressed in vivo CMI responses

Immunological unresponsiveness

Andrade, S. G.; et al., 1972, *Rev. Inst. Med. Trop. S. Paulo*, v. 14 (3), 154-161

Trypanosoma cruzi, Colombian strain, mice with reticulo-endothelial blockade due to India ink injections, cortisone-treated mice, suckling mice, severe infection with high parasitemia occurred in these animals with lowered resistance but basic strain pattern was not changed

Immunological unresponsiveness

Arredondo, B.; and Perez, H., 1979, *Infect. and Immun.*, v. 25 (1), 16-22

Leishmania mexicana, mice, chronic infection, alterations of immune response, results suggest role for suppressor cells in pathogenesis of diffuse cutaneous leishmaniasis

Immunological unresponsiveness

Askonas, B. A.; et al., 1979, *Immunology*, v. 36 (2), 313-321

Trypanosoma brucei brucei, mice, functional depletion of T- and B-memory cells and other lymphoid cell populations, serum Ig levels, immunosuppression in T-deprived and CBA/N mice; cells affecting delayed hypersensitivity reactions provide only exception to general decline in immune potential

Immunological unresponsiveness

Assoku, R. K. G.; Hazlett, C. A.; and Tizard, I., 1979, *Internat. Arch. Allergy and Applied Immunol.*, v. 59 (3), 298-307

Trypanosoma congolense, mice, significant depression of humoral immunity, simultaneous increase in background IgM plaque-forming cell levels, mitogenicity of trypanosome-derived saturated fatty acids

Immunological unresponsiveness

Assoku, R. K. G.; and Tizard, I. R., 1978, *Experientia*, v. 34 (1), 127-129

Trypanosoma congolense, autolysates found to be highly mitogenic for spleen cells of normal and nude but not cyclophosphamide-treated mice, possible role of trypanosome-derived mitogen in immunosuppression associated with African trypanosomiasis

Immunological unresponsiveness

Attallah, A. M.; et al., 1979, *J. Immunol.*, v. 122 (4), 1413-1420

Schistosoma mansoni, mice, changes in composition and functional capacity of T and B cell subpopulations during acute infection, both suppressor cells and immune complexes contribute to these changes

Immunological unresponsiveness

Barratt, T. M., 1979, *Arch. Dis. Childhood*, v. 54 (11), 825-830

malaria as therapy for nephrotic syndrome of childhood, immunological and other aspects, brief review

Immunological unresponsiveness

Barriga, O. O., 1978, *J. Parasitol.*, v. 64 (4), 638-644

Trichinella spiralis, mice pretreated with parasite extract, saline, or bovine serum albumin, blastogenic responses to T- and B-cell mitogens, production of rosette- and of direct and indirect plaque-forming cells, and titers of IgM and of IgG circulating antibodies, results indicate that suppressor T-cells apparently play major but not exclusive role in *T. spiralis*-induced nonspecific immunodepression

Immunological unresponsiveness

Batoni, F. L.; et al., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (4), 283-291

Strongyloides stercoralis, disseminated infection in renal transplant patients on immunosuppressive drugs, acute respiratory failure

Immunological unresponsiveness

Becker, P. F. L., 1975, *Rev. Inst. Med. Trop. S. Paulo*, v. 17 (3), 187-198

[*trypanosoma*] *cruzi*, fatal infection in splenectomized woman with hemolytic anemia and under prolonged corticoid therapy, had received blood transfusion from Chagasic donor, clinical aspects, pathology: Sao Paulo State, Brazil

Immunological unresponsiveness

Behnke, J. M.; and Parish, H. A., 1979, *Exper. Parasitol.*, v. 47 (1), 116-127

Nematospirides dubius, arrested development of larvae in immune mice, resumption of development after cortisone treatment, arrested larvae were insensitive to activity of pyrantel embonate

Immunological unresponsiveness

Behnke, J. M.; Wakelin, D.; and Wilson, M. M., 1978, *Exper. Parasitol.*, v. 46 (1), 121-130
Trichinella spiralis, delayed expulsion in mice concurrently infected with *Nematospirides dubius*

Immunological unresponsiveness

Benatar, S. R., 1977, *South African Med. J.*, v. 52 (25), 1019-1024
pulmonary complications in immunocompromised patients, includes information on *Pneumocystis carinii*

Immunological unresponsiveness

Berghen, P.; and Poelvoorde, J., 1978, *Vlaams Diergenesk. Tijdschr.*, v. 47 (3), 218-230
Ascaridia galli-infected chickens, worm burdens with reference to arrested development and worm expulsion, effect of glucocorticoids

Immunological unresponsiveness

Beverley, J. K. A.; Henry, L.; and Hunter, D., 1978, *Research Vet. Sc.*, v. 24 (2), 139-146
Toxoplasma gondii, 1-, 8-, and 10-day-old piglets (exper.), serological findings, tissue cysts, reactive changes in lymphoid tissue, incidence and severity of inflammatory lesions, organs affected; *T. gondii* more virulent in younger piglets due to delayed maturation of host lymphoid system during first week of life

Immunological unresponsiveness

Bitzan, M.; and Spira, D. T., 1978, *Israel J. Med. Sc.*, v. 14 (6), 673-681
Plasmodium berghei-infected mice, impaired traffic of lymphocytes as possible cause of immunosuppression in malaria, symposium presentation

Immunological unresponsiveness

Blackwood, L. L.; and Molinari, J. A., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (1), 8-14
Trichinella spiralis, effect of different phases of life cycle on delayed hypersensitivity responses to heat-killed or viable BCG, findings suggest that effect of infection on immune capabilities of host is dependent on different anatomical locations of parasite

Immunological unresponsiveness

Bloom, B. R., 1979, *Nature*, London (5708), v. 279, 21-26
mechanisms by which parasites escape immune surveillance, review

Immunological unresponsiveness

Borojevic, R.; Santoro, F.; and Grimaud, J. A., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (2), 109-112
Schistosoma mansoni, hepato- and splenomegaly more pronounced in mice born to infected vs. non-infected mothers and exposed as sucklings to cercariae, apparent effect of congenitally-induced modification of host immunological response (tolerance-like state)

Immunological unresponsiveness

Briner, J.; et al., 1978, *Schweiz. Med. Wchenschr.*, v. 108 (42), 1632-1637
Strongyloides stercoralis, fatal in human following renal transplantation, case report, pathology

- Immunological unresponsiveness**
 Brissette, W. H.; Coleman, R. M.; and Rencricca, N. J., 1978, *Proc. Soc. Exper. Biol. and Med.*, v. 159 (2), 317-320
Plasmodium berghei-infected mice, progressive depression in splenic T-cell population, abnormal T-cell migration
- Immunological unresponsiveness**
 Broeckaert-van Orshoven, A.; Michielsen, P.; and Vandepitte, J., 1979, *Lancet*, London (8145), v. 2, 740-741 [Letter]
 fatal leishmaniasis in renal-transplant patient, case report
- Immunological unresponsiveness**
 Buxton, D.; Reid, H. W.; and Pow, I., 1979, *J. Comp. Path.*, v. 89 (3), 375-379
Toxoplasma gondii-infected mice, diminished immune response to clostridial and louping-ill virus vaccines
- Immunological unresponsiveness**
 Byram, J. E.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 274-285
Schistosoma mansoni, T-cell deprived mice vs. normal mice, histopathology, prevention of liver cell damage surrounding egg foci by passive transfer of serum from chronically infected but not from uninfected mice
- Immunological unresponsiveness**
 Callow, L. L.; and Stewart, N. P., 1978, *Nature*, London (5656), v. 272, 818-819
Babesia bovis causes immunosuppression against its natural tick vector *Boophilus microplus*
- Immunological unresponsiveness**
 Camus, D.; et al., 1978, *Pharmacol. Immunoreg.*, 253-265
S[Schistosoma] mansoni, mice, rats, role of immunomodulating substances from parasites in regulation of immune response
- Immunological unresponsiveness**
 Camus, D.; et al., 1979, *European J. Immunol.*, v. 9 (4), 341-344
Schistosoma mansoni, rats, nonspecific suppressor cell activity and specific cellular unresponsiveness
- Immunological unresponsiveness**
 Carvalho Filho, E.; Queiroz, A. C.; and Rocha, H., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (2), 102-107
 strongyloidiasis, fatal severe human infections with concomitant severe intestinal amoebiasis discovered at autopsies, possibly a result of interference with host defenses
- Immunological unresponsiveness**
 Chensue, S. W.; and Boros, D. L., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 291-299
Schistosoma mansoni, mice, population dynamics of T and B lymphocytes in lymphoid organs, peripheral blood, and hepatic granulomas, appearance of B cells within granulomas may indicate that they play role in modulating granulomatous hypersensitivity
- Immunological unresponsiveness**
 Chensue, S. W.; and Boros, D. L., 1979, *J. Immunol.*, v. 123 (3), 1409-1414
Schistosoma mansoni, characterization of T lymphocytes involved in adoptive suppression of granuloma formation in infected mice
- Immunological unresponsiveness**
 Christol, D.; et al., 1976, *Semaine Hop. Paris*, v. 52 (2), 115-118
Pneumocystis carinii, detection in patients with either artificial or natural immune deficiencies, exper. infection of immunosuppressed rats
- Immunological unresponsiveness**
 Clayton, C. E.; et al., 1979, *Parasite Immunol.*, v. 1 (3), 241-249
Trypanosoma brucei brucei, membrane fractions mimic immunosuppressive and mitogenic effects of living parasites on the host
- Immunological unresponsiveness**
 Clayton, C. E.; Ogilvie, B. M.; and Askonas, B. A., 1979, *Parasite Immunol.*, v. 1 (1), 39-48
Trypanosoma brucei brucei in nude mice confirms that infection causes both enhanced Ig production and suppression of ability of B cells to respond to mitogen even in absence of T cells
- Immunological unresponsiveness**
 Cohen, J.; and Spry, C. J. F., 1979, *Parasite Immunol.*, v. 1 (2), 167-178
Strongyloides stercoralis, West Indian man, associated small intestinal lymphoma causing obstruction, deficiency of T lymphocytes and eosinophils, lymphoma may have led to reduction in cellular immunity with subsequent development of *Strongyloides* hyperinfection
- Immunological unresponsiveness**
 Colley, D. G., 1976, *J. Exper. Med.*, v. 143 (3), 696-700
Schistosoma mansoni, passive transfers of lymphoid cells from chronically infected mice to syngeneic mice in early stages of infection suppressed granuloma formation, passive transfers of serum had no such effect
- Immunological unresponsiveness**
 Colley, D. G.; et al., 1979, *J. Immunol.*, v. 122 (4), 1447-1453
Schistosoma mansoni, in vitro nonspecific suppression of phytohemagglutinin responsiveness induced by exposure to certain schistosomal preparations
- Immunological unresponsiveness**
 Colley, D. G.; Lewis, F. A.; and Goodgame, R. W., 1978, *J. Immunol.*, v. 120 (4), 1225-1232
Schistosoma mansoni, human, induction of suppressor cell activity by schistosome antigen preparations and concanavalin A, immunoregulatory responses observed could be important in establishment of stable chronic infection state by modulating extent of egg-induced granuloma formation and preventing rejection of adult worms
- Immunological unresponsiveness**
 Colley, D. G.; Lewis, F. A.; and Todd, C. W., 1979, *Cellular Immunol.*, v. 46 (1), 192-200
Schistosoma mansoni, mice, adoptive suppression of granuloma formation by T lymphocytes and by lymphoid cells sensitive to cyclophosphamide
- Immunological unresponsiveness**
 Corbett, R.; et al., 1975, *Transplant. Proc.*, v. 7 (4), 557-559
Demodex canis, dogs, defect in cell-mediated immunity

Immunological unresponsiveness

Coulis, P. A.; Lewert, R. M.; and Fitch, F. W., 1978, *J. Immunol.*, v. 120 (1), 58-60; Erratum (3), 1073-1076

Schistosoma mansoni, depression and restoration of cell-mediated cytotoxicity of spleen cells from infected mice, present studies suggest role of macrophage rather than T-cell as suppressor cell in this model

Immunological unresponsiveness

Crandall, R. B.; Crandall, C. A.; and Jones, J. F., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 30-37

Ascaris suum, mice, analysis of immunosuppression during early acute infection

Immunological unresponsiveness

Cunningham, D. S.; Craig, W. H.; and Kuhn, R. E., [1979], *J. Parasitol.*, v. 64 (6), 1978, 1044-1049

Trypanosoma cruzi, both susceptible and resistant mice become severely hypocomplementemic during exper. Chagas disease, trypanosomes and their products can initiate complement cascade via classical pathway, passively induced immunosuppression of humoral responses occurs in absence of concomitant hypocomplementemia

Immunological unresponsiveness

Cunningham, D. S.; Kuhn, R. E.; and Rowland, E. C., 1978, *Infect. and Immun.*, v. 22 (1), 155-160

Trypanosoma cruzi-infected mice, immunosuppression of humoral responses in two host strains differing in susceptibility, mechanism appears to be suppressor substance in serum

Immunological unresponsiveness

Doak, P. B.; et al., 1973, *Quart. J. Med.*, v. 66, n.s. (165), v. 42, 59-71

Pneumocystis carinii pneumonia in patients who had undergone renal transplantation, clinical aspects of pulmonary complications or "transplant lung"

Immunological unresponsiveness

Doenhoff, M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 260-273

Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-*S. mansoni* egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Immunological unresponsiveness

Doenhoff, M.; and Long, E., 1979, *Parasitology*, v. 78 (2), 171-183

Schistosoma mansoni, mice, mechanisms of resistance investigated by T-cell deprivation, variety of other immunosuppressive treatments, and several other in vivo methods

Immunological unresponsiveness

Dubey, J. P.; and Frenkel, J. K., 1974, *Vet. Path.*, v. 11 (4), 350-379

Toxoplasma gondii, cats (exper.), immunity, effects of host age and corticosteroid administration; excretion of *T. gondii*, *Isospora felis*, and *I. rivolta* oocysts from cats previously infected and challenged with all three coccidia

Immunological unresponsiveness

Duncan, J. L.; Smith, W. D.; and Dargie, J. D., 1978, *Vet. Parasitol.*, v. 4 (1), 21-27

Haemonchus contortus, sheep, vaccination protected against challenge and was associated with raised levels of abomasal mucus IgA and serum IgG antibodies in adults but lambs were not protected and did not have raised levels of these antibodies, possible implications for immune unresponsiveness of lambs

Immunological unresponsiveness

Duszynski, D. W.; et al., 1978, *J. Parasitol.*, v. 64 (1), 83-88

Trichinella spiralis, suppressed rejection in immunized rats concurrently infected with *Eimeria nieschulzi*

Immunological unresponsiveness

Eling, W. M. C., 1979, *Exper. Parasitol.*, v. 47 (3), 403-409

Plasmodium berghei, mice, immunodepressive effect of antithymocyte serum on induction of immunity

Immunological unresponsiveness

Endardjo, S.; et al., 1978, *J. Trop. Med. and Hyg.*, v. 81 (2-3), 25-31

Plasmodium berghei berghei, Swiss albino mice infected intraperitoneally, capacity of cyclophosphamide to suppress immune response and increase pathology attributed to suppressive effects of drug upon protein synthesis, cell division and activity of reticulo-endothelial cells

Immunological unresponsiveness

Freeman, R. R., 1978, *Cellular Immunol.*, v. 41 (2), 373-379

Plasmodium, delayed-type hypersensitivity to sheep erythrocytes was depressed during fatal *P. berghei* and self-limiting *P. yoelii* infections in mice, immunological lesion found to be at level of DTH expression (i.e., inflammatory response) rather than at level of T cell sensitization

Immunological unresponsiveness

Freeman, R. R.; and Parish, C. R., 1978, *Clin. and Exper. Immunol.*, v. 32 (1), 41-45

Plasmodium berghei, *P. yoelii*, mice, numbers of 'background' plaque-forming cells secreting IgM specific for either sheep or horse erythrocytes elevated in spleens during infection or in spleens of uninfected mice injected with non-infectious extracts of parasitized mouse red blood cells, results provide corroborating evidence for hypothesis that B-cell mitogen is associated with blood stage of malaria parasites, possible involvement in immunosuppression

Immunological unresponsiveness

Fujiwara, M.; and Kishimoto, S., 1979, *J. Immunol.*, v. 123 (1), 263-268

aged (vs. young adult) mice exhibit depressed IgE, IgG, and IgM antibody response to DNP-*Ascaris* and depressed avidity of IgE antibody for DNP determinant

Immunological unresponsiveness

Galvao-Castro, B.; Hochmann, A.; and Lambert, P. H., 1978, Clin. and Exper. Immunol., v. 33 (1), 12-24

Trypanosoma brucei, comparative immunopathological studies in normal, athymic nude, irradiated, or newborn mice, results show that immunodeficiency suppresses development of characteristic muscle lesions of African trypanosomiasis and that passive transfer of normal spleen cells or normal T lymphocytes could induce characteristic lesions in infected athymic nude mice and that anti-trypanosome antibody could partly do so

Immunological unresponsiveness

Gill, G. V.; Bell, D. R.; and Fifield, R., 1979, Clin. and Exper. Immunol., v. 37 (2), 292-294
Strongyloides stercoralis, British ex-Far East prisoners of war with longstanding infections, lack of immunoglobulin E response

Immunological unresponsiveness

Gold, D.; et al., 1978, J. Parasitol., v. 64 (5), 866-873

Entamoeba histolytica, serologic and cell-mediated immune responses of *Mesocricetus auratus* exposed to 2 parasite strains, indirect hemagglutination test, lymphocyte transformation, migration inhibition of macrophages, some evidence of immunosuppression

Immunological unresponsiveness

Greene, B. M.; Otto, G. F.; and Greenough, W. B. III, 1978, Am. J. Trop. Med. and Hyg., v. 27 (5), 905-909
 circulating microfilaria (probably undescribed species from wild mammal) in young girl with systemic lupus erythematosus requiring steroid therapy, case report, compromised immunity may have led to unusual infection: east-central Alabama

Immunological unresponsiveness

Greenwood, B. M., 1974, Ciba Found. Symp., n.s. (25), 137-159
Plasmodium falciparum, *Trypanosoma gambiense*, Nigerian patients, immunosuppression, review

Immunological unresponsiveness

Gregg, P.; et al., 1978, Vet. Parasitol., v. 4 (1), 35-48
Trichostrongylus colubriformis, response to vaccination of lambs aged 3 months compared to sheep aged 10 months, cause of relative unresponsiveness of lambs not known

Immunological unresponsiveness

Grieve, R. B.; Gebhardt, B. M.; and Bradley, R. E., sr., 1979, Internat. J. Parasitol., v. 9 (4), 275-279
Dirofilaria immitis, dogs (exper.), cell-mediated (lymphocyte transformation assay) and humoral (indirect hemagglutination assay) immune responses, diminished mitogen responsiveness

Immunological unresponsiveness

Grove, D. I.; and Forbes, I. J., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 23-26
Wuchereria bancrofti, human, generalized immunosuppression with impairment of humoral and cell-mediated immunity against non-filarial antigens: Philippines

Immunological unresponsiveness

Grzywnski, L., 1978, Acta Parasitol. Polon., v. 25 (21-35), 275-280
Toxoplasma gondii, marked depression of natural immunity in cyclophosphamide-treated rats

Immunological unresponsiveness

Hafizi, A.; and Mobabber, F. Z., 1978, Clin. and Exper. Immunol., v. 33 (3), 389-394
Toxoplasma gondii, mice, reversal of effect of cyclophosphamide by passive immunization, data indicate that antibody plays important role in establishing infection-immunity (premunition) in this system

Immunological unresponsiveness

Hall, B. T.; et al., 1979, Exper. Parasitol., v. 47 (3), 305-312
Trichinella spiralis, responses of spleen cells in mixed lymphocyte cultures (depressed) and to T-independent immunogen (enhanced) in vitro parallel alterations in immune responsiveness in vivo

Immunological unresponsiveness

Hashimoto, A., 1972, Showa Igakkai Zasshi (J. Showa Med. Ass.), v. 32 (6), 292-296
Hymenolepis nana, mice, immunity acquired from primary infection suppressed by rabbit antimouse thymocyte serum but not by antimouse lymphocyte serum

Immunological unresponsiveness

Hazlett, C. A.; and Tizard, I. R., 1978, Clin. and Exper. Immunol., v. 33 (2), 225-231
Trypanosoma musculi, immunosuppressive and mitogenic effects, possible relationship of mitogenesis to immunosuppression and non-specific antibody formation associated with infections

Immunological unresponsiveness

Higenbottam, T. W.; and Heard, B. E., 1976, Thorax, v. 31 (2), 226-233
Strongyloides stercoralis, man, opportunistic pulmonary infection complicating asthma treated with steroids, case report of fatal illness; emphasis on need for diagnostic awareness: London

Immunological unresponsiveness

Hillyer, G. V.; and Cangiano, J. L., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 331-333
Schistosoma mansoni, granulomatous response to parasite eggs in patient on maintenance immunosuppression after renal transplant, case report

Immunological unresponsiveness

Hopkins, C. A.; and Stallard, H. E., 1976, Rice Univ. Studies, v. 62 (4), 145-159
Hymenolepis diminuta, mice, effect of cortisone treatment on worm survival, possible sites of action of cortisone in preventing worm rejection

Immunological unresponsiveness

Hubbard, W. J., 1978, Cellular Immunol., v. 39 (2), 388-394
 alpha-2 macroglobulin-enzyme complexes as suppressors of cellular activity, speculations for alpha-2 macroglobulin's role in feedback regulation of cell division and for the subversion of this regulatory function by invasive organisms (including *Schistosoma mansoni*) and tumors

Immunological unresponsiveness

Hudson, K. M.; and Terry, R. J., 1979, *Parasite Immunol.*, v. 1 (4), 317-326

Trypanosoma brucei, chronically infected mice, relationships between course of infection, antigenic variation, and immunodepression of antibody responses to heterologous antigens

Immunological unresponsiveness

Hunter, K. W., jr.; et al., 1979, *J. Immunol.*, v. 123 (1), 133-137

Plasmodium yoelii, defective resistance in CBA/N mice, demonstrates that X-linked gene that affects B cell function influences malarial resistance in mice

Immunological unresponsiveness

Itaya, T.; and Ovary, Z., 1979, *J. Exper. Med.*, v. 150 (3), 507-516

Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, interaction of primed and unprimed T cells

Immunological unresponsiveness

Ito, A., 1978, *Exper. Parasitol.*, v. 46 (1), 12-19

Hymenolepis nana, mice immunized with initial egg inoculation become resistant not only to egg but also to mouse-derived cysticeroid challenge, cortisone acetate suppresses immune response against the cysts, a few of egg-derived tapeworms can survive 6 or more months in some of the immunized mice

Immunological unresponsiveness

Jacobson, K. W.; and deShazo, R. D., 1979, *J. Allergy and Clin. Immunol.*, v. 64 (6, pt. 1), S16-S21

5-year-old girl with triad of selective IgA deficiency, nodular lymphoid hyperplasia of small bowel, and *Giardia lamblia* infection

Immunological unresponsiveness

Jacobson, R. L.; Zuckerman, A.; and Greenblatt, C. L., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 25-29

Plasmodium berghei, neonate rats from normal or immune mothers receiving spleen cells from normal or immune mothers and fostered to normal or immune mothers in various combinations, results suggest that immune response was suppressed in presence of passively transferred maternal antibody

Immunological unresponsiveness

Jacqueline, E.; Vernes, A.; and Biguet, J., 1978, *Exper. Parasitol.*, v. 45 (1), 34-41

Trichinella spiralis, inhibition of larval production by females from mice immunized with 'metabolic' antigen, comparison with production by females from unimmunized mice, effect of immunosuppressants on production of larvae by females from unimmunized mice

Immunological unresponsiveness

Jayawardena, A. N.; Janeway, C. A., jr.; and Kemp, J. D., 1979, *J. Immunol.*, v. 123 (6), 2532-2539

Plasmodium yoelii in intact and T cell-deprived mice carrying CBA/N X chromosome, course of infection, specific fluorescent antibody levels, anti-erythrocyte autoantibody responses; effect of CBA/N X chromosome on secondary responses

Immunological unresponsiveness

Jayawardena, A. N.; Waksman, B. H.; and Eardley, D. D., 1978, *J. Immunol.*, v. 121 (2), 622-628

Trypanosoma brucei, mice, activation of distinct helper and suppressor T cells, significance in relation to pathogenesis of trypanosomiasis

Immunological unresponsiveness

Katz, A. J.; and Rosen, F. S., 1977, *Ciba Found. Symp.*, n.s. (46), 243-261

gastrointestinal complications of immunodeficiency syndromes, review including information on *Giardia lamblia*

Immunological unresponsiveness

Kayes, S. G.; and Colley, D. G., 1979, *J. Immunol.*, v. 122 (6), 2340-2344

Schistosoma mansoni, in vitro induction and assay of spleen cell suppressor activity

Immunological unresponsiveness

Kelly, J. D.; Kenny, D. F.; and Whitlock, H. V., 1977, *N. Zealand Vet. J.*, v. 25 (1-2), 12-15

Ancylostoma caninum, dogs, peripheral blood lymphocyte response to phytohaemagglutinin before and after development of iron deficiency anemia

Immunological unresponsiveness

Kempmann, G.; Buehler, F.; and Koesters, W., 1976, *ROEFO*, v. 124 (5), 424-427

Pneumocystis carinii, human, fatal pneumocystis pneumonia after renal transplantation, clinical and radiologic findings with diagnosis confirmed only on autopsy, clinical case report; needle biopsy recommended for definitive diagnosis

Immunological unresponsiveness

Khan, Z. I.; and De Rycke, P. H., 1977, *Ztschr. Parasitenk.*, v. 52 (3), 267-274

Hymenolepis microstoma in mice treated with cortisone, increased weight and glycogen content of worms seems to be immunosuppressive effect rather than hormonal action; cortisone in vitro produces no change in worm weight; infection by 30 worms provokes rejection process which can be partially suppressed by cortisone

Immunological unresponsiveness

Kittas, C.; and Henry, L., 1979, *Clin. and Exper. Immunol.*, v. 36 (1), 16-23

Toxoplasma gondii, guinea pigs, effect of gonadectomy and oestrogen administration on development of lesions in non-lymphoid organs, results suggest that cell-mediated immunity is important in both pathogenesis of and resistance to non-lymphoid toxoplasmosis

Immunological unresponsiveness

Klesius, P. H.; et al., 1979, *Clin. Immunol. and Immunopathol.*, v. 12 (2), 143-149

Eimeria ferriisi, C57BL/6 mice, effects of immunization and treatment with transfer factor, results suggest this host strain has genetically determined defect in cell-mediated immune response to this infection

Immunological unresponsiveness

Komatsu, T.; et al., 1979, *Exper. Parasitol.*, v. 47 (2), 158-168

Ascaris suum, crude extract or maintenance fluid suppresses reaginic and hemagglutinating antibody responses of mice to hen egg white lysozyme

Immunological unresponsiveness

- Kumar, V.; et al., 1979, *Ann. Parasitol.*, v. 54 (3), 331-339
Dictyocaulus viviparus, effect of immunosuppressive therapy on course of development in guinea pigs

Immunological unresponsiveness

- Laltoo, H.; and Kind, L. S., 1979, *Infect. and Immun.*, v. 26 (1), 30-35
Myocoptes musculus-infested oxazolone-sensitized mice, reduction of cellular infiltration in contact sensitivity reactions to oxazolone challenge; ability of serum from infested mice to cause this reduction in cellular influx in mite-free oxazolone-sensitized mice challenged with oxazolone

Immunological unresponsiveness

- Leelarasamee, A.; et al., 1978, *Siriraj Hosp. Gaz.*, v. 30 (6), 939-943
 strongyloidiasis, asymptomatic infection in persons with renal diseases higher than in normal population, recommends screening of patients prior to corticosteroid therapy to avoid dissemination of infection

Immunological unresponsiveness

- Lelchuk, R.; et al., 1979, *Parasite Immunol.*, v. 1 (1), 61-78
Plasmodium yoelii- and *P. berghei*-infected mice and vaccinated mice challenged with homologous parasites, changes in phagocytic and adherent cell numbers, development and suppression of population of late-adhering macrophages

Immunological unresponsiveness

- Liew, F. Y.; Dhaliwal, S. S.; and Teh, K. L., 1979, *Immunology*, v. 37 (1), 35-44
Plasmodium berghei, mice, effect of infection and of supernatant obtained from cultures of infected red cells on humoral (enhanced or suppressed) and cell-mediated (suppressed) immune responses to unrelated antigens

Immunological unresponsiveness

- Long, G. W.; and Dusanic, D. G., 1978, *Exper. Parasitol.*, v. 44 (1), 56-65
Trypanosoma lewisi, serological reactivities of exoantigens and cellular antigens of bloodstream parasites from immunosuppressed rats (precipitation and agglutination tests), results suggest that likely result of immunosuppressing host is trypanosome antigen preparation that is more reactive serodiagnostic reagent

Immunological unresponsiveness

- McBride, J. S.; and Micklem, H. S., 1977, *Immunology*, v. 33 (2), 253-259
Plasmodium yoelii yoelii-infected mice, depressed primary response to bovine serum albumin

Immunological unresponsiveness

- Mackenzie, A. R.; Sibley, P. R.; and White, B. P., 1979, *Parasite Immunol.*, v. 1 (1), 49-59
Trypanosoma brucei-infected rats, differential suppression of 2 experimental allergic diseases

Immunological unresponsiveness

- Maddison, S. E.; et al., 1979, *Infect. and Immun.*, v. 25 (1), 249-254
Schistosoma mansoni, cellular and humoral immune responses in *Macaca mulatta* with multiple chronic and early primary infections

Immunological unresponsiveness

- Mahmoud, A. A. F., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 286-290
Schistosoma mansoni, effect of mutation diabetes (marked immunosuppression) on host-parasite relationship in mice, decreased granulomatous response

Immunological unresponsiveness

- Mandel, M. A.; et al., 1974, *Surg. Forum*, v. 25, 300-302
 cholera toxin as suppressor of in vivo cell-mediated immunity, including suppression of granuloma formation around *Schistosoma mansoni* eggs; possible value as adjunct to current therapy

Immunological unresponsiveness

- Manning, D. D.; Manning, J. K.; and Reed, N. D., 1976, *J. Exper. Med.*, v. 144 (1), 288-292
Nippostrongylus brasiliensis, mice, suppression of reaginic antibody (IgE) formation by treatment with anti- μ antiserum, supports hypothesis that IgE-producing cells arise from IgM-bearing precursors

Immunological unresponsiveness

- Mansfield, J. M., 1978, *Cellular Immunol.*, v. 39 (1), 204-210
 African trypanosomiasis, lymphocyte dysfunction and immunosuppression (histopathological considerations; B cell function; T cell function; macrophage function), cellular bases of immunosuppression, review

Immunological unresponsiveness

- Mansfield, J. M.; and Bagasra, O., 1978, *J. Immunol.*, v. 120 (3), 759-765
Trypanosoma rhodesiense, mice, B cell responses to helper T cell-independent and -dependent antigens, implications for mechanism of immune system dysfunction in chronic African trypanosomiasis

Immunological unresponsiveness

- Markowitz, S. M.; et al., 1978, *Am. J. Path.* (436), v. 92 (3), 733-743
Acanthamoeba castellanii, mice (exper.), pretreated with methylprednisolone or tetracycline, increased host mortality due to depressed host immunity; potentially pathogenic role for naturally occurring *Acanthamoeba* sp. in immunosuppressed humans

Immunological unresponsiveness

- Marshall-Clarke, S.; and Playfair, J. H. L., 1979, *Immunol. Rev.*, v. 43, 109-141
 B cells: subpopulations, tolerance, autoimmunity, and infection, review including some discussion of *Schistosoma mansoni* and malaria

Immunological unresponsiveness

- Martynowicz, T., 1975, *Acta Parasitol. Polon.*, v. 23 (41-51), 603-633
Trichinella spiralis, guinea pigs, treatment with immunosuppressive drugs, immunologic observations (macrophage migration inhibition test, serologic tests), immunohistochemical observations, behavior of mast cells, histopathology, parasitologic observations

Immunological unresponsiveness

Matsuev, V. I., 1974, Vet. Nauka--Proizvod., Trudy, Minsk, v. 12, 89-90
 ascariasis, chickens, lowered degree of immunity to Newcastle disease after vaccination against this disease

Immunological unresponsiveness

Matthews, D.; Brunsdon, R. V.; and Vlassoff, A., 1979, Vet. Parasitol., v. 5 (1), 65-72
 nematodes, dexamethasone-treated sheep and controls exposed to infective larvae on pasture, faecal egg counts and worm burdens of dexamethasone-treated sheep were much higher than controls

Immunological unresponsiveness

Mayor Withey, K. S.; et al., 1978, Clin. and Exper. Immunol., v. 34 (3), 359-363
 Trypanosoma brucei, mice, extensive proliferation of B, T, and null cells in spleen and bone marrow, still unclear whether there is any primary target cell for immunosuppression

Immunological unresponsiveness

Meltzer, R. S.; et al., 1979, Am. J. Med. Sc., v. 277 (1), 91-98
 Strongyloides stercoralis, woman, development of hyperinfection syndrome while on high-dose corticosteroids and following splenectomy, central nervous system involvement, antemortem diagnosis, thiabendazole, levamisole, and mebendazole therapy:
 Memorial Sloan-Kettering Cancer Center, New York (had traveled in Italy and Sicily)

Immunological unresponsiveness

Mendes, R. P.; Takehara, H. A.; and Mota, I., 1979, Exper. Parasitol., v. 48 (3), 345-351
 Trypanosoma cruzi, mice with acute and chronic infection, homocytotropic antibody response to unrelated antigens, loss of T-cell regulatory mechanism may explain results

Immunological unresponsiveness

Menezes, H., 1971, Rev. Soc. Brasil. Med. Trop., v. 5 (4), 212-233
 Trypanosoma cruzi, demonstration of avirulence of PF strain in mice vaccinated and treated with immunosuppressive drugs

Immunological unresponsiveness

Menezes, H., 1972, Rev. Soc. Brasil. Med. Trop., v. 6 (2), 79-84
 Trypanosoma cruzi, immunosuppression by immunotolerance by inoculating avirulent PF strain in very high doses, mice

Immunological unresponsiveness

Menezes, H., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (5), 253-265
 Trypanosoma cruzi, antilymphocytic serum enhanced infection in dogs infected with virulent strain of parasite but could not promote evident infection and disease in dogs injected with live avirulent T. cruzi PF strain

Immunological unresponsiveness

Meyers, A. M.; et al., 1976, South African Med. J., v. 50 (33), 1301-1302
 Strongyloides stercoralis, hyperinfection in patient who received intensive immunosuppression after renal allograft, fatal illness from septicaemia and respiratory infection caused by parasitism: Johannesburg, South Africa

Immunological unresponsiveness

Michel, J. C.; Lagrange, P. H.; and Hurtrel, B., 1979, Parasite Immunol., v. 1 (4), 267-275
 Plasmodium-infected mice, profound alteration of inductive phase of delayed-type hypersensitivity and antibody formation to sheep erythrocytes when sensitization with antigen was performed intravenously at critical time of disease but not after subcutaneous immunization, suggests major role for spleen in mechanism of immunodepression

Immunological unresponsiveness

Miller, K. L.; Good, A. H.; and Mishell, R. I., 1978, Infect. and Immun., v. 22 (2), 365-370
 Taenia crassiceps, in vitro response to sheep erythrocytes of mesenteric lymph node cells from infected mice is significantly depressed and can be restored to control levels by addition of activated peritoneal cells depleted of functional T or B lymphocytes, results suggest that immunodepression in infected mice is primarily result of alterations in functional accessory cells

Immunological unresponsiveness

Mitchell, G. F., 1979, Advances Immunol., v. 28, 451-511
 immunological and 'paraimmunological' responses to infection with metazoan and protozoan parasites in mouse models, extensive review

Immunological unresponsiveness

Mocelin, A. J.; et al., 1977, Transplantation, v. 23 (2), 163 [Letter]
 Trypanosoma cruzi in 29-year-old woman recipient of kidney transplant, negative blood smears after lapit, kidney function preserved: Brazil

Immunological unresponsiveness

Moqbel, R.; and Denham, D. A., 1978, Parasitology, v. 76 (3), 289-298
 Strongyloides ratti in rats, effect of betamethasone on course of infection

Immunological unresponsiveness

Moqbel, R.; and Wakelin, D., 1979, Exper. Parasitol., v. 47 (1), 65-72
 Trichinella spiralis, Strongyloides ratti, immune interaction in adult rats, may involve interplay of cross-immunity and cross-suppression

Immunological unresponsiveness

Mota-Santos, T. A.; et al., 1976, Rev. Inst. Med. Trop. S. Paulo, v. 18 (4), 246-250
 Schistosoma mansoni, mice with heavy infections showed immunodepression that was not observed in mice with light infections

Immunological unresponsiveness

Moulton, J. E.; and Coleman, J. L., 1979, Am. J. Vet. Research, v. 40 (8), 1131-1133
 Trypanosoma brucei in Peromyscus maniculatus, chronic infection, soluble immunosuppressor substance in spleen, in vivo (mice) and in vitro studies

Immunological unresponsiveness

Naik, S. R.; et al., 1979, Trop. and Geogr. Med., v. 31 (4), 493-498
 Giardia lamblia, humans, no immunodeficient basis for endemic giardiasis found in comparative survey of immunoglobulins in serum and duodenal juice and of T and B lymphocyte sub-populations of infected vs. non-infected persons: North India

Immunological unresponsiveness

- Naik, S. R.; et al., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (3), 291-292
Giardia lamblia, humans, investigation of humoral and cellular immunity shows no impairment of immune functions

Immunological unresponsiveness

- Nasseri, M.; and Modabber, F. Z., 1979, *Infect. and Immun.*, v. 26 (2), 611-614
Leishmania tropica major in BALB/c mice, generalized infection and lack of delayed hypersensitivity, comparison with other mouse strains which exhibit localized and self-healing infection with this organism

Immunological unresponsiveness

- Neilson, J. T. M., 1978, *Acta Trop.*, v. 35 (1), 57-61
Dipetalonema viteae-infected hamsters with amicrofilaremic infections, immunosuppressive drugs caused reappearance of microfilariae

Immunological unresponsiveness

- Nielsen, K.; et al., 1978, *Experientia*, v. 34 (1), 118-119
Trypanosoma lewisi-infected or de complemented rats, increased susceptibility to *Salmonella typhimurium* infection; de complemented rats subsequently infected with *T. lewisi* developed higher blood parasitemia than did normal *T. lewisi*-infected rats

Immunological unresponsiveness

- Olson, C. E.; and Schiller, E. L., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 521-526
Strongyloides ratti, rats, primary and secondary infections, expulsion kinetics and intestinal mast cell counts, antithymocyte serum suppressed expulsion as well as intestinal mast cell and circulating eosinophil responses to primary infection

Immunological unresponsiveness

- Olson, C. E.; and Schiller, E. L., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 527-531
Strongyloides ratti, rats, cortisone suppressed both primary and secondary expulsion and reduced intestinal mast cell response but did not induce hyperinfection, capacity to expel worms was recovered less than 2 weeks after termination of cortisone administration

Immunological unresponsiveness

- Oomen, J. M. V.; Meuwissen, J. H. E. T.; and Gemert, W., 1979, *Trop. and Geogr. Med.*, v. 31 (4), 587-606
 males of 3 ethnic groups and 3 age groups inhabiting same locality, haematological status (including anemia), spleen and liver enlargement, immunoglobulin status, malaria parasite rates, other parasite infections, possible associations between these and other factors (including nutrition, sickle cell trait, altered immune response to malaria): Northern Nigeria

Immunological unresponsiveness

- Orjih, A. U.; and Nussenzweig, R. S., 1979, *Clin. and Exper. Immunol.*, v. 38 (1), 1-8
Plasmodium berghei, mice, suppression of antibody response to sporozoite stage by acute blood infection

Immunological unresponsiveness

- Ottesen, E. A., 1979, *J. Immunol.*, v. 123 (4), 1639-1644
Schistosoma mansoni, human, adherent suppressor cells that inhibit lymphocyte proliferative responses to parasite antigens

Immunological unresponsiveness

- Ottesen, E. A.; et al., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 38-47
Schistosoma mansoni, patients with acute, subacute, and chronic disease before and after niridazole treatment, lymphocyte responsiveness to schistosome antigens, possible implications of diminished cellular immune reactivity in chronic disease state

Immunological unresponsiveness

- Pasternak, J.; Amato Neto, V.; and Levi, G. C., 1971, *Rev. Inst. Med. Trop. S. Paulo*, v. 13 (4), 297-301
Toxoplasma gondii, increased risk of toxoplasmosis in immunosuppressed patients with malignant lympho-reticulo-endothelial diseases

Immunological unresponsiveness

- Pautrizel, R.; et al., 1978, *Compt. Rend. Acad. Sc.*, Paris, v. 286, s. D, Sc. Nat. (20), 1487-1492
Trypanosoma equiperdum, immunodepressed mice cannot be cured by treatment with an association of electromagnetic waves and a magnetic field

Immunological unresponsiveness

- Pearson, T. W.; et al., 1978, *European J. Immunol.*, v. 8 (10), 723-727
T[rypanosomal] congolense-infected mice, depressed T lymphocyte responses

Immunological unresponsiveness

- Pearson, T. W.; et al., 1979, *European J. Immunol.*, v. 9 (3), 200-204
Trypanosoma congolense, suppression of both B and T lymphocyte responses by spleen cells from infected mice, mechanism of suppression is complex and probably involves more than 1 cell type

Immunological unresponsiveness

- Pelley, R. P.; and Warren, K. S., 1978, *J. Invest. Dermat.*, v. 71 (1), 49-55
 schistosomiasis, review of current evidence that both induction and amelioration of hepatosplenic disease are immunologically mediated

Immunological unresponsiveness

- Perez, H.; Arredondo, B.; and Gonzalez, M., 1978, *Infect. and Immun.*, v. 22 (2), 301-307
Leishmania mexicana, 2 human strains (one from typical case of American cutaneous leishmaniasis and one from case of diffuse cutaneous leishmaniasis) in 2 strains of inbred mice, course of lesions, delayed hypersensitivity response, agglutinating antibodies, in vitro responses to leishmanial antigens and to mitogens, results show impaired immune response in BALB/c mice

Immunological unresponsiveness

Perez, H.; Malave, I.; and Arredondo, B., 1979, Clin. and Exper. Immunol., v. 38 (3), 453-460
Leishmania mexicana, course of infection in normally nourished vs. protein-deficient mice, possible interaction between malnutrition, impairment of immune response, and chronicity of cutaneous leishmaniasis

Immunological unresponsiveness

Pifer, L. L.; et al., 1978, Pediatrics, Am. Acad. Pediat., v. 61 (1), 35-41
Pneumocystis carinii, methods (counterimmunoelectrophoresis and indirect immunofluorescence) of detecting antigen and antibody in sera of normal and immunosuppressed children, evidence that subclinical infections are highly prevalent in normal children while active disease is prevalent in the compromised child

Immunological unresponsiveness

Preston, P. M.; Behbehani, K.; and Dumonde, D. C., 1978, J. Clin. and Lab. Immunol., v. 1 (3), 207-219
Leishmania tropica major, experimental cutaneous leishmaniasis, anergy and allergy in cellular immune response during non-healing infection in different strains of mice

Immunological unresponsiveness

Prost, A.; Nebout, M.; and Rougemont, A., 1979, Brit. Med. J. (6163), v. 1, 589-590
 onchocerciasis in districts with and without high prevalence, prevalence of lepromatous leprosy about twice as high in areas where onchocerciasis is hyperendemic, reduced level of immunity because of onchocerciasis: Republic of Upper Volta, West Africa

Immunological unresponsiveness

Ramalho-Pinto, F. J.; Smithers, S. R.; and Playfair, J. H. L., 1979, J. Immunol., v. 123 (2), 507-514
Schistosoma mansoni, suppression of helper T cell response to TNP-schistosomula in rats and mice

Immunological unresponsiveness

Ramos, C.; et al., 1978, Exper. Parasitol., v. 45 (2), 190-199
Trypanosoma cruzi, infection in mice induces immunosuppression to both T-dependent and T-independent antigens, depression observed is not due to alteration in macrophage function

Immunological unresponsiveness

Ramos, C.; Schaedtler-Siwon, I.; and Ortiz-Ortiz, L., 1979, J. Immunol., v. 122 (4), 1243-1247
Trypanosoma cruzi, mice, infection elicits generation of T cells in spleen suppressive to T and B cell mitogenic responses

Immunological unresponsiveness

Reed, S. G.; Larson, C. L.; and Speer, C. A., 1977, Ztschr. Parasitenk., v. 52 (1), 11-17
Trypanosoma cruzi, mice immunized by Freund's adjuvant or oxazolone, acute infection suppressed cell-mediated immunity to these antigens; immunization with live T. cruzi before infection resulted in greater than normal oxazolone sensitivity, mice survived infection; inconclusive as to whether immunosuppression due to infection is directed toward induction or toward expression of cell-mediated response

Immunological unresponsiveness

Reed, S. G.; Larson, C. L.; and Speer, C. A., 1978, Infect. and Immun., v. 22 (2), 548-554
Trypanosoma cruzi, contact sensitivity responses in infected mice, results indicate that suppression of contact sensitivity during acute infection is directed toward efferent arm rather than afferent arm of response

Immunological unresponsiveness

Reid, H. W.; et al., 1979, Infect. and Immun., v. 23 (2), 192-196
Trypanosoma brucei, mice, effect of chronic infection on course of louping-ill virus infection, results indicate that immunosuppressive effect of chronic trypanosomiasis may markedly increase susceptibility to acute virus infection and may alter epidemiology of arthropod-transmitted viruses

Immunological unresponsiveness

Reid, H. W.; Holmes, P. H.; and Skinner, H. H., 1979, J. Comp. Path., v. 89 (4), 581-585
Trypanosoma brucei-induced immunosuppression, mice, influence on immunization against louping-ill virus and lymphocytic choriomeningitis virus

Immunological unresponsiveness

Reiner, N. E.; et al., 1979, J. Infect. Dis., v. 140 (2), 162-168
Schistosoma mansoni, patients with advanced chronic hepatosplenic disease, concurrent responses of peripheral blood and splenic mononuclear cells to antigenic and mitogenic stimulation

Immunological unresponsiveness

Roelants, G. E.; et al., 1979, Clin. and Exper. Immunol., v. 37 (3), 457-469
Trypanosoma congolense-infected mice, numbers of parasites in peripheral blood, changes in spleen cell populations, immune depression, suppressor cell activity, changes after berenil treatment

Immunological unresponsiveness

Roelants, G. E.; et al., 1979, European J. Immunol., v. 9 (3), 195-199
Trypanosoma congolense-infected mice, composition of spleen cell populations used for functional assays, drastic reduction in B and T lymphocyte function cannot be due simply to dilution of relevant cells by null cells

Immunological unresponsiveness

Rose, M. E.; et al., 1979, Parasite Immunol., v. 1 (2), 125-132
Eimeria nieschulzi, *Nippostrongylus brasiliensis*, failure of nude (athymic) rats to become resistant to reinfection

Immunological unresponsiveness

Rose, M. E.; and Hesketh, P., 1979, Infect. and Immun., v. 26 (2), 630-637
Eimeria spp. infections in normal animals vs. in animals with functional deficiencies in either T-lymphocytes or B-lymphocytes

Immunological unresponsiveness

Rowland, E. C.; and Kuhn, R. E., 1978, J. Parasitol., v. 64 (4), 741-742
Trypanosoma cruzi, mice, suppression of anamnestic cellular responses in immunized animals, suppression shows nonspecific character, could be speculated that T. cruzi acts as tolerogen during infection resulting in anergic condition similar to desensitization

- Immunological unresponsiveness**
Rowland, E. C.; and Kuhn, R. E., 1978, *Infect. and Immun.*, v. 20 (2), 393-397
Trypanosoma cruzi, mice (2 strains of differing resistance), suppression of cell-mediated responses during infection, significance unclear
- Immunological unresponsiveness**
Rurangirwa, F. R.; et al., 1978, *Research Vet. Sc.*, v. 25 (3), 395-397
Trypanosoma congolense, T. vivax, cattle, immunosuppressive effect on secondary humoral immune response to Mycoplasma m. mycoides
- Immunological unresponsiveness**
Rurangirwa, F. R.; et al., 1979, *Infect. and Immun.*, v. 26 (3), 822-826
Trypanosoma congolense- or T. vivax-infected Bos indicus, suppression of antibody response to Leptospira biflexa and Brucella abortus and recovery from immunosuppression after berenil treatment
- Immunological unresponsiveness**
Ryning, F. W.; et al., 1979, *Ann. Int. Med.*, v. 90 (1), 47-49
Toxoplasma gondii, human, heart transplants, strong implication that donors' hearts were most likely source of infection, case reports
- Immunological unresponsiveness**
dos Santos, R. R., 1973, *Rev. Patol. Trop.*, v. 2 (4), 433-463
Trypanosoma cruzi, lymphocytes of mice inoculated with avirulent PF strain conferred immunity in mice (treated with immunosuppressive drugs or untreated) against infections with the virulent Y strain; newborn mice treated with immunosuppressive drugs showed no protection against the virulent strain
- Immunological unresponsiveness**
Scalise, G.; et al., 1978, *J. Med. Primatol.*, v. 7 (2), 114-118
Plasmodium inuei-infected Macaca mulatta had enhanced susceptibility to hepatitis B virus
- Immunological unresponsiveness**
Schalm, O. W., 1978, *Feline Pract.*, v. 8 (4), 18, 20-22
Toxoplasma gondii in bone marrow of cat with terminal erythroleukemia, assumed that immune defenses deteriorated
- Immunological unresponsiveness**
Schmunis, G. A.; et al., 1977, *Rev. Inst. Med. Trop. S. Paulo*, v. 19 (5), 323-331
Trypanosoma cruzi-infected mice inoculated with sheep red blood cells, alterations in immune response and their possible mechanisms
- Immunological unresponsiveness**
Schumaker, J. D.; et al., 1978, *Ann. Int. Med.*, v. 89 (5, pt. 1), 644-645
Strongyloides stercoralis, hyperinfected anephric patient on hemodialysis, successful use of thiabendazole, pharmacokinetic information
- Immunological unresponsiveness**
Sharma, M. K.; Anaraki, F.; and Ala, F., 1978, *Clin. and Exper. Immunol.*, v. 32 (3), 477-483
Leishmania tropica, in vitro suppression of lymphocyte blastogenic response to mitogen and antigen
- Immunological unresponsiveness**
Sharma, S. K.; Banerjee, D. P.; and Gautam, O. P., 1978, *Indian J. Animal Health*, v. 17 (2), 105-110
Anaplasma marginale in Bubalus bubalis (exper.), clinical course, haematological changes, effect of immunosuppressants
- Immunological unresponsiveness**
Shien, Y. S., 1979, *J. Chinese Soc. Vet. Sc.*, v. 5 (1), 19-22
Trypanosoma evansi, goats (exper.), immunosuppression of response to Brucella abortus vaccinations, reversal after naganol treatment
- Immunological unresponsiveness**
Siebert, A. E., jr.; Good, A. H.; and Simmons, J. E., 1978, *Internat. J. Parasitol.*, v. 8 (1), 39-43
Taenia crassiceps, mice, kinetics of primary and secondary infections, prior subcutaneous implantation of larvae stimulates immunity to larvae inoculated intraperitoneally, two distinct components in host response, reduction in host response associated with increased worm burdens may indicate possible depression of host immune system
- Immunological unresponsiveness**
Smith, R. J.; and Aldini, L. P., 1978, *J. Parasitol.*, v. 64 (5), 936-937
Plasmodium berghei, 17-X and NYU-2 strains, mice, immunosuppression using triamcinolone acetonide
- Immunological unresponsiveness**
Smrkovski, L. L.; Larson, C. L.; and Reed, S. G., 1979, *Infect. and Immun.*, v. 25 (3), 1078-1080
Leishmania donovani, increased susceptibility in congenitally athymic mice, correlated with lack of Arthus and delayed type responses
- Immunological unresponsiveness**
Smrkovski, L. L.; and Strickland, G. T., 1978, *J. Immunol.*, v. 121 (4), 1257-1261
Plasmodium berghei, mice, single or multiple immunizations with BCG and/or irradiated sporozoites (varying degrees of protection), immunization with irradiated sporozoites before BCG (suppression of protective immunity against sporozoite challenge)
- Immunological unresponsiveness**
Snyder, S. P.; England, J. J.; and McChesney, A. E., 1978, *Vet. Path.*, v. 15 (1), 12-17
Cryptosporidium [sp.] in Arabian foals (intestine, stomach, pancreatic and bile ducts, gall bladder) with inherited combined immunodeficiency, mixed infection with adenovirus, difficult to separate effects of both agents: Colorado State University
- Immunological unresponsiveness**
Stavale, J. N.; De Bortoli, N. A.; and Guidugli Neto, J., 1977, *Rev. Paul. Med.*, v. 90 (3-4), 75-77
Toxoplasma gondii, child receiving immunosuppressive drugs for rheumatoid arthritis, recurrent infection with toxoplasmosis resulting in fatal encephalitis: Sao Paulo, Brazil

Immunological unresponsiveness

- Stevens, D. P.; and Frank, D. M., 1978, Tr. Ass. Am. Physicians, v. 91, 268-272
Giardia muris-infected mice, resistance to infection transferred passively in mother's milk, during lactation in immune females
 maternal intestinal resistance to *Giardia* is temporarily lost

Immunological unresponsiveness

- Stevens, D. P.; Frank, D. M.; and Mahmoud, A. A. F., 1978, J. Immunol., v. 120 (2), 680-682
Giardia muris in nude mice, demonstration of persistent infection and failure to acquire demonstrable resistance to subsequent challenge

Immunological unresponsiveness

- Stockinger, H.; and Koenig, W., 1979, Behring Inst. Mitt. (64), 127-130
Nippostrongylus brasiliensis, rats, effects of cell-bound and circulating immune complexes on lymphocyte proliferation, suggested that immune complexes mediate diminution in mitogenic responsiveness

Immunological unresponsiveness

- Strambachova-McBride, J.; and Micklem, H. S., 1979, Parasite Immunol., v. 1 (2), 141-157
Plasmodium berghei- and *P. yoelii yoelii*-infected mice, immunosuppression, secondary response to bovine serum albumin

Immunological unresponsiveness

- Strambachova-McBride, J.; and Micklem, H. S., 1979, Immunology, v. 36 (3), 607-614
Plasmodium berghei, *P. y. yoelii*, mice, primary antibody response to immunogenic alum-adsorbed bovine serum albumin (BSA) was depressed and induction of immunological memory by soluble polymerized BSA was suppressed in both infections but neither interfered with induction of low-zone tolerance by monomeric BSA

Immunological unresponsiveness

- Strickland, G. T.; DeSilva, S.; and Sayles, P. C., 1979, Tropenmed. u. Parasitol., v. 30 (1), 35-42
Plasmodium yoelii infection in mice and *P. falciparum* and *P. vivax* infection in humans, changes in lymphocyte populations during acute infections thought to be related to development of malarial immunity and immunodepression

Immunological unresponsiveness

- Stuiver, P. C., 1972, Tijdschr. Gastro-enterol., v. 15 (4), 238-247
 tropical splenomegaly in humans thought to be lymphoproliferative disorder secondary to abnormal immunological reaction to malaria infection, prolonged antimalarial therapy treatment of choice

Immunological unresponsiveness

- Stuiver, P. C.; and Goud, T. J. L. M., 1978, Brit. Med. J. (6134), v. 2, 394-395
Entamoeba histolytica, possible hazards of administering corticosteroids to persons who may have amoebiasis, steroid therapy may result in acute amoebic dysentery or exacerbation of amoebiasis, case reports

Immunological unresponsiveness

- Tanabe, K.; Takada, S.; and Suzuki, M., 1978, J. Parasitol., v. 64 (2), 367-368
Plasmodium berghei-infected mice, sensitization to sheep red blood cells by subcutaneous vs. intravenous routes, difference in cell-mediated immune reaction in regional lymph nodes and spleen, results show difference between iv and sc sensitized mice in immunodepression by malaria

Immunological unresponsiveness

- Tanner, C. E.; Lim, H. C.; and Faubert, G., 1978, Exper. Parasitol., v. 45 (1), 116-127
Trichinella spiralis infection causes dramatic changes in mouse's thymic, splenic, and lymph node cell populations, suggested that these phenomena contribute to the immunosuppression which is characteristic of *T. spiralis* infections

Immunological unresponsiveness

- Taylor, D. W.; and Siddiqui, W. A., 1978, Infect. and Immun., v. 21 (1), 147-150
Plasmodium falciparum, suppression of lymphocyte transformation by plasma from acutely infected *Aotus trivirgatus grisei*-membra

Immunological unresponsiveness

- Teixeira, A. R. L.; et al., 1978, J. Clin. Invest., v. 62 (6), 1132-1141
Trypanosoma cruzi, children with apparent vs. inapparent acute Chagas' disease, clinical and laboratory findings, humoral antibody response, delayed-type skin responses, inhibition of leukocyte migration, serum proteins and immunoglobulins; demonstration of cell-mediated immunodepression in inapparent acute disease

Immunological unresponsiveness

- Terry, R. J., 1978, Colloque Immun. Parasit. Dis. (Thiverval-Grignon, Sept. 5-9, 1977), 161-178
 immunodepression in parasite infections, colloquium presentation

Immunological unresponsiveness

- Thong, Y. H.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 388-390
 mefloquine (new antimalarial compound), effect on mitogen-induced human and mouse lymphocyte proliferative responses, effect on antibody responses and delayed-type hypersensitivity responses to sheep red blood cells in treated mice

Immunological unresponsiveness

- Thong, Y. H.; and Ferrante, A., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 354-356
 quinine, inhibition of mitogen-induced human lymphocyte proliferative responses, this immunosuppressive property may be undesirable side effect in treatment of malaria

Immunological unresponsiveness

- Thong, Y. H.; Ferrante, A.; and Rowan-Kelly, B., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (5), 537-539
 primaquine possesses potent immunosuppressive activity at concentrations within therapeutic range for vivax malaria

- Immunological unresponsiveness**
 Todd, C. W.; Goodgame, R. W.; and Colley, D. G., 1979, *J. Immunol.*, v. 122 (4), 1440-1446
Schistosoma mansoni, suppression of schistosome antigen-specific lymphocyte blastogenesis by adherent/phagocytic cells
- Immunological unresponsiveness**
 Verma, B. B.; and Sinha, B. P., 1978, *Indian Vet. J.*, v. 55 (12), 995-998
Trypanosoma evansi, albino rats (exper.), effect of prednisolone 7 days before infection until death on course of disease
- Immunological unresponsiveness**
 Vinayak, V. K.; Chitkara, N. L.; and Chhuttani, P. N., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (3), 266-268
Entamoeba histolytica-infected rats pre-treated with corticosteroids, irradiation or both, exacerbation of amoebic pathology, corticosteroid therapy possibly aggravates otherwise sub-clinical infection
- Immunological unresponsiveness**
 Walzer, P. D.; Powell, R. D., jr.; and Yoneda, K., 1979, *Infect. and Immun.*, v. 24 (3), 939-947
Pneumocystis carinii, cortisonized mouse as experimental model for pneumocystis pneumonia, host strain differences
- Immunological unresponsiveness**
 Warren, K. S., 1974, *Ciba Found. Symp.*, n.s. (25), 243-261
 schistosomiasis, modulation of immunopathology, review
- Immunological unresponsiveness**
 Watanabe, N.; Kojima, S.; and Ovary, Z., 1976, *J. Exper. Med.*, v. 143 (4), 833-845
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, non-specific suppressor T cells, characteristic of low and transient IgE antibody response in SJL mice is inherited as recessive trait controlled by single Mendelian autosomal gene and is not linked to H-2 gene complex
- Immunological unresponsiveness**
 Watanabe, N.; and Ovary, Z., 1977, *J. Exper. Med.*, v. 145 (6), 1501-1510
Nippostrongylus brasiliensis, suppression of IgE antibody production in SJL mice, characterization of suppressor substance extracted from normal SJL spleen cells
- Immunological unresponsiveness**
 Watanabe, N.; and Ovary, Z., 1978, *Internat. Arch. Allergy and Applied Immunol.*, v. 57 (6), 554-559
Nippostrongylus brasiliensis, AKR mice, enhancement of IgE antibody production was obtained by priming helper cells with parasite infection, X-ray irradiation eliminated suppressor cells
- Immunological unresponsiveness**
 Wedderburn, N., 1974, *Ciba Found. Symp.*, n.s. (25), 123-135, 147-159
Plasmodium berghei subsp.-infected mice, immunodepression
- Immunological unresponsiveness**
 Weinbaum, F. I.; et al., 1978, *J. Immunol.*, v. 121 (2), 629-636
Plasmodium berghei yoelii (substrain 17X nonlethal) in BALB/c mice, kinetics of various specific and nonspecific cellular and humoral responses during course of infection
- Immunological unresponsiveness**
 Weisburger, W. R.; et al., 1979, *Am. J. Clin. Path.*, v. 72 (3), 473-478
Cryptosporidium [sp.], human, case report, immunosuppressed renal-transplant recipient with IgA deficiency: Johns Hopkins Hospital
- Immunological unresponsiveness**
 Weiss, N., 1978, *Exper. Parasitol.*, v. 46 (2), 283-299
Dipetalonema viteae in 2 strains of hamster, lymphocyte blastogenesis (during different stages of primary infection, after injection of dead larvae, after implantation of adult worms, in mixed infection with *Schistosoma mansoni*), attempt to relate results with parasitological findings and with humoral immune response, analysis of cellular unresponsiveness to filarial antigens in chronically infected LAKZ hamsters
- Immunological unresponsiveness**
 Wellhausen, S. R.; and Mansfield, J. M., 1979, *J. Immunol.*, v. 122 (3), 818-824
Trypanosoma rhodesiense-infected mice, spleen is major target organ for immunosuppression, suppression is attributable to emergence of suppressor macrophage population that is restricted to the spleen
- Immunological unresponsiveness**
 Whitelaw, D. D.; et al., 1979, *Research Vet. Sc.*, v. 26 (1), 102-107
Trypanosoma spp., cattle, mice, suppressed antibody response to louping-ill vaccine, value of diminazene therapy in alleviating this effect
- Immunological unresponsiveness**
 Wikel, S. K.; Graham, J. E.; and Allen, J. R., 1978, *Immunology*, v. 34 (2), 257-263
Dermacentor andersoni, guinea pigs, development of resistance after one infestation, presence of cell-mediated immune component indicated by delayed skin reactivity and in vitro lymphocyte responsiveness to salivary gland antigen, evidence suggests that tick infestation might induce degree of immunosuppression in host
- Immunological unresponsiveness**
 Wilkie, B. N.; Markham, R. J. F.; and Hazlett, C., 1979, *Canad. J. Comp. Med.*, v. 43 (4), 415-419
Demodex canis, healthy Doberman puppies from kennel with high prevalence of mange, cell mediated immunological reactions, deficient cutaneous delayed response to phytohemagglutinin injection
- Immunological unresponsiveness**
 Willadsen, P.; Wood, G. M.; and Riding, G. A., 1979, *Ztschr. Parasitenk.*, v. 59 (1), 87-93
Boophilus microplus, *Bos taurus* of high and low resistance, skin histamine concentration, histamine sensitivity, suppression of cutaneous hypersensitivity reactions with mepyramine maleate

Immunological unresponsiveness

- Williamson, W. A.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 676-677
Plasmodium falciparum, children, hypocomplementaemia may be severe during acute infections but is only transient

Immunological unresponsiveness

- Williamson, W. A.; and Greenwood, B. M., 1978, Lancet, London (8078), v. 1, 1328-1329
Plasmodium falciparum, impairment of immune response of children vaccinated with *Salmonella typhi* and meningococcal vaccines after onset of acute malarial attack; significant correlation found between height of parasitemia and degree of immunosuppression

Immunological unresponsiveness

- Wilson, R. J. M., 1974, Ciba Found. Symp., n.s. (25), 185-203
 soluble parasite antigens, possible modes of interference with immune response, review

Immunological unresponsiveness

- Wolf, R. E.; et al., 1978, Ann. Int. Med., v. 88 (6), 769-773
Entoplopoloides sp. intraerythrocytic parasitosis in 2 humans with hepatic dysfunction, description of serum factors inhibiting phytohemagglutinin response by normal lymphocytes suggests that hepatic dysfunction induces serum factors that diminish cellular immunity and allow patent parasitemia to develop: United States (one patient was born in Turkey; the other was a merchant seaman who traveled extensively)

Immunological unresponsiveness

- Wyler, D. J.; Oppenheim, J. J.; and Koontz, L. C., 1979, Infect. and Immun., v. 24 (1), 151-159
Plasmodium berghei, *P. yoelii*, mice, effects of infection on ability of adherent mononuclear cells to elaborate soluble mediators that regulate lymphocyte activation in vitro

Immunological unresponsiveness

- Yeh, H. Y.; and Shien, Y. S., 1979, J. Chinese Soc. Vet. Sc., v. 5 (1), 33-37
Trypanosoma evansi, dogs (exper.), changes in peripheral blood T- and B-lymphocytes

Immunopathology

- Allison, A. C.; and Clark, I. A., 1978, Colloque Immun. Parasit. Dis. (Thierval-Grignon, Sept. 5-9, 1977), 147-160
 macrophage activation and its relevance to immunology and immunopathology of parasitic diseases, colloquium presentation

Immunopathology

- Allison, A. C.; and Houba, V., 1976, Immunol. Parasit. Infect., 436-447
 immunopathology due to complexes of antigen and antibody (Type III reactions) in parasitic infections

Immunopathology

- Andrade, Z. A.; Andrade, S. G.; and Susin, M., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (3), 171-177
Schistosoma mansoni, boy, massive infection, pathology, case report: State of Bahia, Brazil

Immunopathology

- Andrade, Z. A.; and Rocha, H., 1979, Kidney Internat., v. 16 (1), 23-29
Schistosoma mansoni, glomerulopathy, clinical manifestations, pathology, immunopathology, therapy, humans

Immunopathology

- Arredondo, B.; and Perez, H., 1979, Infect. and Immun., v. 25 (1), 16-22
Leishmania mexicana, mice, chronic infection, alterations of immune response, results suggest role for suppressor cells in pathogenesis of diffuse cutaneous leishmaniasis

Immunopathology

- Assoku, R. K. G.; Hazlett, C. A.; and Tizard, I., 1979, Internat. Arch. Allergy and Applied Immunol., v. 59 (3), 298-307
Trypanosoma congolense, mice, significant depression of humoral immunity, simultaneous increase in background IgM plaque-forming cell levels, mitogenicity of trypanosome-derived saturated fatty acids

Immunopathology

- Barros, M. A. M.T.; et al., 1979, Clin. and Exper. Immunol., v. 38 (2), 376-380
Trypanosoma cruzi, patients with chronic myocardiopathy vs. indeterminate phase of Chagas' disease, leucocyte migration inhibition test using parasite vs. heart antigens

Immunopathology

- Barsoum, R. S.; et al., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (4), 367-374
 schistosomiasis, humans with nephrotic syndrome, renal biopsy showed amyloid deposits, speculation that deposits are associated with circulating immune complexes

Immunopathology

- Basson, W.; Page, M. L.; and Myburgh, D. P., 1977, South African Med. J., v. 51 (14), 453-457
 trypanosomiasis, humans, problems in diagnosis and management emphasizing haematological and immunological aspects, clinical course in 5 cases, indications of continuation of immune complex process in spite of therapy that eradicates parasite: Voortrekkerhoogte, Tvl.

Immunopathology

- Beaufils, H.; et al., 1978, Trop. and Geogr. Med., v. 30 (2), 183-191
Schistosoma haematobium, prevalence and type of glomerular lesions in human infections using light microscopy, ultrastructure and immunofluorescence techniques: Mali, Senegal, and Ivory Coast

Immunopathology

- Behmer, O. A., 1973, Rev. Hosp. Clin., S. Paulo, v. 28 (4), 212-221
Schistosoma mansoni, human, determination of elastase in blood platelets and the role of elastase in granuloma formation in lungs

Immunopathology

- Bhamarapravati, N.; Thammavit[sic], W.; and Vajrasthira, S., 1978, Am. J. Trop. Med. and Hyg., v. 27 (4), 787-794
Opisthorchis viverrini-infected Syrian golden hamsters, liver histopathology, immunopathologic mechanisms may be important in pathogenesis; hamster is suitable model host

Immunopathology

- Boonpucknavig, S.; et al., 1979, J. Trop. Med. and Hyg., v. 82 (4), 79-83
Plasmodium berghei, mice, treatment with carbon particles in attempt to block macrophages, alterations in immune response, immunopathology, and histology patterns

Immunopathology

- Boonpucknavig, V.; Boonpucknavig, S.; and Bhamarapravati, N., 1979, Arch. Path. and Lab. Med., v. 103 (11), 567-572
Plasmodium berghei infected mice treated with chloroquine phosphate, focal glomerulonephritis in hyperimmune state, clinical, immunopathologic, and histopathologic findings

Immunopathology

- Boonpucknavig, V.; and Sitprija, V., 1979, Kidney Internat., v. 16 (1), 44-52
Plasmodium falciparum, man, renal disease associated with acute infection, extensive review

Immunopathology

- Borojevic, R.; Santoro, F.; and Grimaud, J. A., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (2), 109-112
Schistosoma mansoni, hepato- and splenomegaly more pronounced in mice born to infected vs. non-infected mothers and exposed as sucklings to cercariae, apparent effect of congenitally-induced modification of host immunological response (tolerance-like state)

Immunopathology

- de Brito, T.; et al., 1969, Rev. Inst. Med. Trop. S. Paulo, v. 11 (1), 62-64
 human hepato-splenic schistosomiasis, ultrastructural study of associated kidney pathology, kidney biopsies showed electron dense deposits thought to be gamma globulin

Immunopathology

- Byram, J. E.; et al., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 274-285
Schistosoma mansoni in T-cell deprived vs. normal mice, histopathology, prevention of liver cell damage surrounding egg foci by passive transfer of serum from chronically infected but not from uninfected mice

Immunopathology

- Byram, J. E.; et al., 1979, Am. J. Path. (441), v. 94 (2), 201-222
Schistosoma mansoni, *S. japonicum*, mice, potentiation of schistosome granuloma formation by lentinan (a T-cell adjuvant)

Immunopathology

- de Castro, P. C. J.; and Luz, E., 1978, Arq. Biol. e Tecn., v. 21 (1), 23-56
Trypanosoma cruzi, patients with chronic Chagasic cardiopathy, presence of anti-myocardium antibody in sera

Immunopathology

- Chensue, S. W.; and Boros, D. L., 1979, Am. J. Trop. Med. and Hyg., v. 28 (2), 291-299
Schistosoma mansoni, mice, population dynamics of T and B lymphocytes in lymphoid organs, peripheral blood, and hepatic granulomas, appearance of B cells within granulomas may indicate that they play role in modulating granulomatous hypersensitivity

Immunopathology

- Chugh, K. S.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 630-631
 filariasis, man, associated mesangio-proliferative glomerulonephritis possibly an immune-complex reaction, case report

Immunopathology

- Colley, D. G., 1976, J. Exper. Med., v. 143 (3), 696-700
Schistosoma mansoni, passive transfers of lymphoid cells from chronically infected mice to syngeneic mice in early stages of infection suppressed granuloma formation, passive transfers of serum had no such effect

Immunopathology

- Colley, D. G.; Lewis, F. A.; and Todd, C. W., 1979, Cellular Immunol., v. 46 (1), 192-200
Schistosoma mansoni, mice, adoptive suppression of granuloma formation by T lymphocytes and by lymphoid cells sensitive to cyclophosphamide

Immunopathology

- Convit, J.; and Pinardi, M. E., 1974, Ciba Found. Symp., n.s. (20), 159-169
 cutaneous leishmaniasis, clinical and immunopathological spectrum in South America, review

Immunopathology

- Coombs, R. R. A., 1976, Immunol. Parasit. Infect., 431-435
 immunopathology due to Type II reactions, review

Immunopathology

- Corbett, R.; et al., 1975, Transplant. Proc., v. 7 (4), 557-559
Demodex canis, dogs, defect in cell-mediated immunity

Immunopathology

- Crowell, W. A.; and Votava, C. L., 1975, Vet. Path., v. 12 (3), 178-185
Dipetalonema viteae-infected *Mesocricetus auratus*, amyloidosis, microfilariiae probably served as antigenic stimulus in pathogenesis

Immunopathology

- Danno, K.; Fukuyama, K.; and Epstein, W. L., 1979, Lab. Invest., v. 40 (3), 358-363
Schistosoma mansoni, infection induces T-cell-independent autoantibody (antinuclear antibody) in athymic mice and T-cell-dependent antischistosome antibodies in thymus-intact mice, both types of antibodies deposit in kidneys as immunocomplexes

Immunopathology

- Date, A.; et al., 1979, Postgrad. Med. J., London (650), v. 55, 905-907
 acute immune complex eosinophilic glomerulonephritis in 44-year-old man with Bancroftian filariasis, possible aetiological relationship

Immunopathology

- Decker-Jackson, J. E.; and Honigberg, B. M., 1978, *J. Protozool.*, v. 25 (4), 514-525
Leishmania donovani, antigenically active glycoproteins released by parasites: immunologic properties and relationships with Mycobacterium antigens and human red cell antigens; preliminary biochemical analysis; possible involvement in pathogenesis of kala azar

Immunopathology

- Digeon, M.; et al., 1979, *Clin. and Exper. Immunol.*, v. 35 (3), 329-337
Schistosoma mansoni, mice, IgG and IgM but not IgA anti-schistosome antibodies, circulating immune complexes containing schistosomal antigen, glomerular mesangial deposits of IgA, IgM, and C3

Immunopathology

- Dineen, J., 1978, *Immunol. Series*, v. 7, 211-257
 helminthiasis, role of homocytotropic antibodies in immunity and pathology with special reference to induction and potentiation of IgE production, review

Immunopathology

- Doenhoff, M.; et al., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 260-273
Schistosoma mansoni in T-cell deprived vs. normal mice, parasitology (worm burdens, tissue and fecal egg counts), host response (hematology, serum transaminase levels), ameliorating effect of administering homologous chronic infection serum or heterologous rabbit anti-S. mansoni egg antiserum, roles played by cell-mediated vs. humoral immune responses in reaction against schistosome egg products

Immunopathology

- Drazner, F. H., 1978, *Canine Pract.*, Santa Barbara, v. 5 (5), 66-68
Dirofilaria immitis, dog, secondary renal amyloidosis and glomerulonephritis, immune-complex mechanism

Immunopathology

- Endardjo, S.; et al., 1978, *J. Trop. Med. and Hyg.*, v. 81 (2-3), 25-31
Plasmodium berghei berghei, Swiss albino mice infected intraperitoneally, capacity of cyclophosphamide to suppress immune response and increase pathology attributed to suppressive effects of drug upon protein synthesis, cell division and activity of reticulo-endothelial cells

Immunopathology

- Epstein, W. L.; et al., 1979, *J. Path.*, v. 127 (4), 207-215
Schistosoma mansoni, normal and athymic mice, granulomatous inflammation, ultra-structural study

Immunopathology

- Facer, C. A.; et al., 1978, *Exper. Parasitol.*, v. 44 (2), 249-261
Trypanosoma brucei, rabbits, renal pathology, glomerular changes result from deposition of soluble trypanosome immune complexes, tubular changes are typical of tissue ischemia, trypanosomiasis in rabbit could be valuable model

Immunopathology

- Facer, C. A.; Bray, R. S.; and Brown, J., 1979, *Clin. and Exper. Immunol.*, v. 35 (1), 119-127
Plasmodium falciparum, Gambian children, direct Coombs antiglobulin reactions, incidence and class specificity, results indicate that sensitization of non-parasitized erythrocytes contributes to pathogenesis of anemia

Immunopathology

- Faubert, G. M.; Meerovitch, E.; and McLaughlin, J., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 892-896
Entamoeba histolytica, liver auto-antibodies in sera from both naturally infected humans and immunized rabbits

Immunopathology

- Faulk, W. P.; et al., 1978, *Protides Biol. Fluids*, v. 26, 427-430
 several conditions of abnormal pregnancy including 3 patients with *Plasmodium falciparum* malaria, deposition of complement components within placenta

Immunopathology

- Ferguson, A.; and MacDonald, T. T., 1977, *Ciba Found. Symp.*, n.s. (46), 305-327
 effects of local delayed hypersensitivity on the small intestine, review including some information on *Giardia lamblia* and *Nippostrongylus brasiliensis*

Immunopathology

- Ferluga, J.; Doenhoff, M. J.; and Allison, A. C., 1979, *Parasite Immunol.*, v. 1 (4), 289-294
Schistosoma mansoni, mice in granulomatous stage of infection, increased hepatotoxicity of bacterial lipopolysaccharide

Immunopathology

- Galvao-Castro, B.; Hochmann, A.; and Lambert, P. H., 1978, *Clin. and Exper. Immunol.*, v. 33 (1), 12-24
Trypanosoma brucei, comparative immunopathological studies in normal, athymic nude, irradiated, or newborn mice, results show that immunodeficiency suppresses development of characteristic muscle lesions of African trypanosomiasis and that passive transfer of normal spleen cells or normal T lymphocytes could induce characteristic lesions in infected athymic nude mice and that anti-trypanosome antibody could partly do so

Immunopathology

- Gibson, D. W.; and Connor, D. H., 1978, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 72 (2), 137-154
Onchocerca volvulus, clinicopathologic study of 34 patients with lymphadenitis, possible role of immune complexes: Africa; Yemen

Immunopathology

- Gobzem, M. P.; and Slepnev, N. K., 1975, *Vet. Nauka--Proizvod.*, Trudy, Minsk, v. 13, 117-120
 echinococcosis, experimental infection of calves, lambs, and piglets with swine and ovine strains, possibility of autoimmune aspects of pathogenesis

Immunopathology

- Goodgame, R. W.; et al., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (6), 1174-1180
Schistosoma mansoni, patients with hepatosplenic vs. intestinal disease, humoral immune responses, no evidence of alterations which might contribute to pathogenesis of hepatosplenic disease

Immunopathology

- Goodwin, L. G., 1974, Ciba Found. Symp., n.s. (20), 107-124
African trypanosomiasis, mechanisms of pathogenesis, review

Immunopathology

- Greenblatt, C. L.; et al., 1978, Israel J. Med. Sc., v. 14 (6), 712-717
summing-up of symposium on immunology and immunopathology of malaria

Immunopathology

- Greenwood, B. M.; et al., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 378-385
Plasmodium falciparum, children, no evidence that any of several immunological factors investigated plays important role in pathogenesis of anemia

Immunopathology

- Greenwood, B. M.; and Oduloju, A. J., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (4), 408-411
Trypanosoma gambiense extract, mitogenic activity, possible role of mitogenic factor in pathogenesis of hypergammaglobulinemia of African trypanosomiasis

Immunopathology

- Greenwood, B. M.; Oduloju, A. J.; and Platts-Mills, T. A. E., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (2), 178-182
Plasmodium falciparum-infected human red blood cells, supernatants from cultures stimulated lymphocytes from both malaria immune and malaria-non-immune donors, parasite-derived mitogen may play role in pathogenesis of hypergammaglobulinaemia

Immunopathology

- Hendrickse, R. G.; and Adeniyi, A., 1979, Kidney Internat., v. 16 (1), 64-74
Plasmodium malariae, children, causing immune complex nephritis, presenting clinical and biochemical findings, renal pathology

Immunopathology

- Hoshino-Shimizu, S.; et al., 1975, Rev. Inst. Med. Trop. S. Paulo, v. 17 (6), 394-397
Schistosoma mansoni, human kidneys from autopsies, schistosomal antigen, immunoglobulins, complement C₃, and fibrinogen

Immunopathology

- Houba, V., 1977, Progr. Immunol. III, 681-687
immunopathology mechanisms in certain tropical parasitic diseases, review

Immunopathology

- Houba, V., 1979, Kidney Internat., v. 16 (1), 3-8
malaria, man and exper. animals, studies show that immune complexes play important role in pathogenesis of nephropathies associated with parasite infections, general review

Immunopathology

- Houba, V., 1979, Kidney Internat., v. 16 (1), 30-43
schistosomiasis, experimental renal disease, extensive review

Immunopathology

- Houba, V.; et al., 1979, Lysosomes Applied Biol. and Therap., v. 6, 3-29
lysosomes, possible role in helminth immunity and immunopathology, review with emphasis on Schistosoma mansoni

Immunopathology

- Houba, V.; Butterworth, A. E.; and Sturrock, R. F., 1977, Immunopathol., 7. Internat. Symp. (Bad Schachen, Germany, June 14-19, 1976), 233-243

eosinophils and the immune response, review: blood eosinophilia; tissue eosinophilia; eosinophils and immune complexes; effector role of eosinophil in immune response; role of eosinophils in immunopathological lesions

Immunopathology

- Houba, V.; Sturrock, R. F.; and Butterworth, A. E., 1978, Protides Biol. Fluids, v. 26, 209-213
schistosomiasis, role of immune complexes in pathogenesis of lesions, review

Immunopathology

- Huldt, G.; et al., 1979, Nature, London (5693), v. 277, 214-216
Entamoeba histolytica activates complement by the alternative pathway and can be lysed by the reaction products, relevance of these observations to pathogenesis of amoebiasis is not yet known

Immunopathology

- van den Ingh, T. S. G. A. M.; and de Neijls-Bakker, M. H., 1979, Tropenmed. u. Parasitol., v. 30 (2), 239-243
Trypanosoma vivax-infected cattle, mononuclear pancarditis with extravascular trypanosomes, considered to be local immune response to these extravascular trypanosomes

Immunopathology

- Izaki, S.; Fukuyama, K.; and Epstein, W. L., 1979, J. Reticuloendothel. Soc., v. 26 (5), 507-514
Schistosoma mansoni, mice, modulation of anti-thrombin and anti-fibrinolytic activities in tissue during development of granulomas

Immunopathology

- Jayawardena, A. N.; Waksman, B. H.; and Eardley D. D., 1978, J. Immunol., v. 121 (2), 622-628
Trypanosoma brucei, mice, activation of distinct helper and suppressor T cells, significance in relation to pathogenesis of trypanosomiasis

Immunopathology

- Jerusalem, C., 1978, Israel J. Med. Sc., v. 14 (6), 620-650
immunopathology of malaria, extensive review, symposium presentation

Immunopathology

- Jimenez Cardoso, J. M.; Mravko M., E.; and Teran, L., 1973, Rev. Fac. Med., Univ. Nac. Auton. Mexico, an. 16, v. 16 (1), 45-51
Plasmodium berghei, white rats (exper.), electron microscopic study of resulting nephrotic syndrome showed direct relationship with antibody formation

Immunopathology

Kassis, A. I.; Warren, K. S.; and Mahmoud, A. A. F., 1978, *Cellular Immunol.*, v. 38 (2), 310-318

Schistosoma haematobium, mice, granuloma formation around eggs is largely cell-mediated immunologic reaction, is dependent on dose and route of sensitization, is relatively specific among the 3 schistosome species, and can be transferred with cells but not with serum from previously egg-sensitized mice; furthermore, egg-sensitized animals demonstrate immediate and delayed skin reactivity on challenge with egg antigens

Immunopathology

Khoury, E. L.; et al., 1979, *Clin. and Exper. Immunol.*, v. 36 (1), 8-15

T[rypanosoma] cruzi, human, presence of circulating antibodies to peripheral nerve, significant association with EVI antibodies, possible role in pathogenesis of Chagas' disease

Immunopathology

Kittas, C.; and Henry, L., 1979, *Clin. and Exper. Immunol.*, v. 36 (1), 16-23

Toxoplasma gondii, guinea pigs, effect of gonadectomy and oestrogen administration on development of lesions in non-lymphoid organs, results suggest that cell-mediated immunity is important in both pathogenesis of and resistance to non-lymphoid toxoplasmosis

Immunopathology

Kummeneje, K.; and Poppe, T. T., 1978, *Acta Vet. Scand.*, v. 19 (1), 129-132

Oedemagena tarandi, reindeer, case of multiple cutaneous malignant lymphoma, probably immune reaction to parasitic larvae

Immunopathology

Lawley, T. J.; et al., 1979, *Clin. and Exper. Immunol.*, v. 37 (2), 221-227

Schistosoma mansoni, human, circulating immune complexes: high incidence in acute disease vs. low incidence in chronic disease, parallels differences in clinical activity; levels inversely correlated with absolute eosinophil counts

Immunopathology

von Lichtenberg, F., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (2), 186-204
schistosomiasis, human, mechanisms of immunity and immunopathology, review

Immunopathology

Lindsley, H. B.; Nagle, R. B.; and Stechschulte, D. J., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (5), 864-872

Trypanosoma rhodesiense-infected rats, proliferative glomerulonephritis, hypocomplementemia, nucleic acid antibodies, feasibility of rat as model host

Immunopathology

Lumsden, R. D., 1979, *Host-Parasite Interfaces*, 49-70

helminth parasitism, mammalian inflammatory response, review of morphological aspects of host-parasite interaction

Immunopathology

Madwar, M. A.; et al., 1978, *Clin. and Exper. Immunol.*, v. 34 (3), 354-358

S[chistosoma] mansoni, *S. haematobium*, humans, concentrations of complement components and immunoglobulins in sera, implications for immunopathological effects of schistosomiasis and for heterogeneity of antigen clearance

Immunopathology

Mahmoud, A. A. F., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (2), 286-290

Schistosoma mansoni, effect of mutation diabetes (marked immunosuppression) on host-parasite relationship in mice, decreased granulomatous response

Immunopathology

Mahmoud, A. A. F.; and Woodruff, A. W., 1978, *Clin. Sc. and Molecular Med.*, v. 54 (4), 397-401

Schistosoma mansoni, mice, splenomegaly, anemia, dependent not only on parasite factors but also on host immunologic response to infection

Immunopathology

Mandel, M. A.; et al., 1974, *Surg. Forum*, v. 25, 300-302

cholera toxin as suppressor of in vivo cell-mediated immunity, including suppression of granuloma formation around *Schistosoma mansoni* eggs; possible value as adjunct to current therapy

Immunopathology

Marquez, J. O.; et al., 1977, *Rev. Neurol. Argentina*, v. 3 (3), 448-451

T[rypanosoma] cruzi, human, antibodies against neurons, endocardium, blood vessels, interstitium and nerves demonstrated in high percentage of cerebral spinal fluid from infected patients

Immunopathology

Michael, A. I.; Awadalla, H. N.; and Farag, H. F., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 62-64

Schistosoma haematobium-infected mice challenged with *S. mansoni*, study of granuloma development suggests presence of cross immunization

Immunopathology

Nasah, B. T.; and Cox, J. N., 1978, *Virchows Arch. A, Path. Anat. and Histol.*, v. 377 (3), 225-236

vascular lesions in testes of 40 of 41 infertile males with oligospermia postulated to be result of repeated formation and deposition of circulating immune complexes, antigens could be of various origins including living or dying parasites, evidence of parasitic testicular involvement (possibly filaria) in 2 cases: Cameroon

Immunopathology

Nielsen, K.; et al., 1978, *Immunology*, v. 35 (5), 811-816

Trypanosoma congolense-infected calves, changes in catabolism of serum immunoglobulins and complement components, possible relationship to pathological changes

Immunopathology

- Nielsen, K.; et al., 1978, *Immunology*, v. 35 (5), 817-826
Trypanosoma congolense-infected calves, changes in serum immunoglobulins, complement, and complement components

Immunopathology

- Olson, C. E.; and Schiller, E. L., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 521-526
Strongyloides ratti, rats, primary and secondary infections, expulsion kinetics and intestinal mast cell counts, antithymocyte serum suppressed expulsion as well as intestinal mast cell and circulating eosinophil responses to primary infection

Immunopathology

- Olson, C. E.; and Schiller, E. L., 1978, *Am. J. Trop. Med. and Hyg.*, v. 27 (3), 527-531
Strongyloides ratti, rats, cortisone suppressed both primary and secondary expulsion and reduced intestinal mast cell response but did not induce hyperinfection, capacity to expel worms was recovered less than 2 weeks after termination of cortisone administration

Immunopathology

- Osunkoya, B. O., 1978, *Israel J. Med. Sc.*, v. 14 (6), 617-619
 immunopathology of human malaria, symposium presentation

Immunopathology

- Parbtani, A.; and Cameron, J. S., 1979, *Kidney Internat.*, v. 16 (1), 53-63
Plasmodium spp., exper. infections in mice, nephritis dependent upon deposition of immune complexes in the kidney accompanies acute infections

Immunopathology

- Pelley, R. P.; and Warren, K. S., 1978, *J. Invest. Dermat.*, v. 71 (1), 49-55
 schistosomiasis, review of current evidence that both induction and amelioration of hepatosplenic disease are immunologically mediated

Immunopathology

- Pery, P.; and Luffau, G., 1979, *Antigens (Sela)*, v. 5, 83-172
 antigens of helminths, extensive review: immunity to helminths; pathophysiology of antigens; immunodiagnosis and immunoprevention

Immunopathology

- Phillips, S. M.; and Colley, D. G., 1978, *Progr. Allergy*, v. 24, 49-182
 schistosomiasis with emphasis on *Schistosoma mansoni*, immunologic aspects of host responses, extensive review: cellular and humoral immune response; immunopathology; eosinophils

Immunopathology

- Poels, L. G.; van Niekerk, C. C.; and Jerusalem, C., 1978, *Israel J. Med. Sc.*, v. 14 (6), 651-654
Plasmodium berghei, mice, formation of two types of immune complex (one with and one lacking plasmodial antigens) and their deposition in renal glomeruli, immune complexes lacking parasite antigen may be involved in secondary autoimmune (anti-smooth muscle) process, possible induction mechanism of autoantibodies, symposium presentation

Immunopathology

- Preston, P. M.; Behbehani, K.; and Dumonde, D. C., 1978, *J. Clin. and Lab. Immunol.*, v. 1 (3), 207-219
Leishmania tropica major, experimental cutaneous leishmaniasis, anergy and allergy in cellular immune response during non-healing infection in different strains of mice

Immunopathology

- Pugin, P.; et al., 1978, *Schweiz. Med. Wchnschr.*, v. 108 (41), 1602
Leishmania donovani, 33 year old woman, isolation and characterization of circulating immune complexes present in high concentration, probable participation in pathogenesis

Immunopathology

- de Raadt, P., 1974, *Ciba Found. Symp.*, n.s. (20), 199-224
 African trypanosomiasis, immunity and antigenic variation, clinical observations suggestive of immune phenomena, review

Immunopathology

- Rest, J. R.; and Wright, D. H., 1979, *J. Pathol.*, v. 127 (3), 115-120
Plasmodium berghei-infected *Mesocricetus auratus*, cerebral lesions, transmission and scanning electron microscopy, hypothesized that pathogenesis relates to immune complex formation

Immunopathology

- Rev. Prat., Paris, v. 27 (37), 1977, 2341-2409
Plasmodium spp., issue devoted to current status of human malarial with discussion on: life cycle, geographic distribution, immunopathology, diagnosis, clinical management, treatment and prophylaxis

Immunopathology

- Ribeiro dos Santos, R.; et al., 1979, *Tropenmed. u. Parasitol.*, v. 30 (1), 19-23
 [trypanosomal] cruzi-infected humans, presence of IgG and IgM antibodies to neurons demonstrated by immunofluorescence

Immunopathology

- Rickman, W. J.; and Cox, H. W., 1979, *J. Parasitol.*, v. 65 (1), 65-73
Trypanosoma brucei rhodesiense-infected rats, syndrome characterized by anemia, splenomegaly, and glomerulonephritis, accompanied by presence of 3 autoantibodies and by presence of fixed complement and fibrinogen on trypanosomes and erythrocytes

Immunopathology

- Ridley, D. S., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (2), 150-160
 leishmaniasis, human cutaneous, histopathology in relationship to immunological mechanisms, logarithmic parasite index to provide framework of various disease forms and their inter-relationships

Immunopathology

- Rojas Ayala, M. A., 1973, *Rev. Soc. Brasil. Med. Trop.*, v. 7 (6), 353-358
Leishmania donovani, natural infection in dogs, kidney pathology probably mediated as an immune mechanism

Immunopathology

de Rouse, A. R.; and Romero M., J., 1974, Rev. Inst. Med. Trop. S. Paulo, v. 16 (6), 362-367

Schistosoma mansoni-infected mice, ultra-structure of kidney lesions, characterized as immune complex disease

Immunopathology

Salam, E. A.; Ishaac, S.; and Mahmoud, A. A. F., 1979, J. Immunol., v. 123 (4), 1829-1831
Schistosoma mansoni, human; histocompatibility-linked susceptibility for hepatosplenomegaly: Egypt

Immunopathology

Salgado, J. A.; et al., 1972, Rev. Inst. Med. Trop. S. Paulo, v. 14 (1), 73-82
Schistosoma mansoni, human, case report of patient with hepatosplenic and pulmonary forms, discussion of pathology with emphasis on immunological factor and vascular adaptive capacity

Immunopathology

dos Santos, R. R.; and Marquez, J. O., 1977, Rev. Neurol. Argentina, v. 3 (3), 439-442
[Trypanosoma] cruzi, human, physiopathology of neuronal destruction, presence of IgG and IgM antibodies to neurons discovered in human serum, sequence of pathologic events detailed in infected mice

Immunopathology

dos Santos, R. R.; de Oliveira, J. C. R.; and Koeberle, F., 1976, Rev. Goiana Med., v. 22 (3-4), 235-243
[Trypanosoma] cruzi, human, immunopathology of nervous system lesions

Immunopathology

Santos-Buch, C. A., 1977, Immunopathol., 7. Internat. Symp. (Bad Schachen, Germany, June 14-19, 1976), 205-220
Trypanosoma cruzi, role of immune reactions in pathogenesis of Chagas' disease, review

Immunopathology

Schmunis, G. A.; et al., 1978, J. Infect. Dis., v. 138 (3), 401-404
Trypanosoma cruzi, persistence of tissue-reacting (EVI) antibodies in nifurtimox-treated patients followed for several months to 2 years, implications for significance of EVI antibodies in pathogenesis of Chagas disease

Immunopathology

Teixeira, A. R. L.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1097-1107
Chagas' disease, serum antibody titers, delayed skin response, inhibition of leukocyte migration by Trypanosoma cruzi antigen and by cross-reactive heart cell antigen, cytotoxicity of sensitized T-lymphocytes to parasitized human heart cells

Immunopathology

Thoongsuwan, S.; and Cox, H. W., 1978, J. Parasitol., v. 64 (4), 669-673
Trypanosoma lewisi, ATC strain in Sprague-Dawley rats, anemia, splenomegaly, and glomerulonephritis accompanied by presence of cold-active hemagglutinin for trypsinized rat erythrocytes

Immunopathology

Trojan, H. J., 1977, Rev. Internat. Trachome et Path. Ocul. Trop. et Subtrop., v. 54 (3-4), 111-117

Onchocerca volvulus, human eye, atrophy of disc of optic nerve, discussion of possible etiology, possibly an antigen-antibody reaction

Immunopathology

Türk, J. L.; and Belehu, A., 1974, Ciba Found. Symp., n.s. (25), 101-122
infectious diseases including leishmaniasis and Chagas' disease, evidence for immunological basis of spectra of clinical manifestations, review

Immunopathology

Vargas, D. L., 1974, Salud Pub. Mexico, v. 16 (5), 751-754

Onchocerca volvulus, human, coast erysipelas (Guatemala) or 'purple illness' (Mexico) refers to cutaneous pathology of Arthus type reaction, treatment

Immunopathology

Vincent, A. L.; and Ash, L. R., 1978, Am. J. Trop. Med. and Hyg., v. 27 (3), 514-520
Brugia spp.-infected Meriones unguiculatus, histologic and organ weight changes in spleens, relationship to parasite life cycle, aspects related to host sex and to parasite species

Immunopathology

Warren, K. S., 1974, Ciba Found. Symp., n.s. (25), 243-261
schistosomiasis, modulation of immunopathology, review

Immunopathology

Warren, K. S., 1976, Immunol. Parasit. Infect., 448-468
immunopathology due to cell-mediated (Type IV) reactions, review

Immunopathology

Warren, K. S., 1978, Nature, London (5664), v. 273, 609-612
schistosomiasis, pathology, pathobiology, and pathogenesis, review

Immunopathology

Warren, K. S.; Grove, D. I.; and Pelley, R. P., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 271-275
Schistosoma japonicum egg granuloma, cellular composition, size, immunologic concomitants, differences from S. mansoni

Immunopathology

Weisinger, J. R.; et al., 1978, Am. J. Trop. Med. and Hyg., v. 27 (2, pt. 1), 357-359
Leishmania donovani, human, case report, kidney involvement demonstrated clinically and histologically, deposits of immune complexes: University Hospital of Caracas, Venezuela

Immunopathology

Weiss, N., 1978, *Exper. Parasitol.*, v. 46 (2), 283-299

Dipetalonema viteae in 2 strains of hamster, lymphocyte blastogenesis (during different stages of primary infection, after injection of dead larvae, after implantation of adult worms, in mixed infection with *Schistosoma mansoni*), attempt to relate results with parasitological findings and with humoral immune response, analysis of cellular unresponsiveness to filarial antigens in chronically infected LAKZ hamsters

Immunopathology

Wright, I. G.; and Boreham, P. F. L., 1977, *Biochem. Pharmacol.*, v. 26 (5), 417-423
Trypanosoma brucei, rabbits, chronic infections, urine volume, urinary kallikrein, effects of inhibitors on properties, excretion of elevated levels of urinary kallikrein considered to be due to glomerular damage and possibly to activation of plasma kallikrein by parasite and by parasite/antibody complexes

Immunopathology

Wyller, D. J.; Wahl, S. M.; and Wahl, L. M., 1978, *Science* (4366), v. 202, 438-440
Schistosoma mansoni, egg granulomas (obtained from livers of infected mice) secrete fibroblast stimulating factor in vitro, this suggests that hepatic granulomas may play role in development of hepatic fibrosis in schistosomiasis

Immunopathology

van Zon, A.; Eling, W.; and Jerusalem, C., 1978, *Israel J. Med. Sc.*, v. 14 (6), 659-672
Plasmodium berghei, histo- and immunopathology in 6 different mouse strains, symposium presentation

Immunopathology

Zvaifler, N. J., 1976, *Immunol. Parasit. Infect.*, 409-430
 immediate hypersensitivity (Type I) reactions, review

Immunosuppression. See Immunological unresponsiveness.

Immunotolerance. See Immunological unresponsiveness.

Implantation. See Transplantation.

Imported diseases. See Disease transmission, Imported and exported hosts; Disease transmission, Travel and migration.

Indexes. See Indices.

India

Chellappa, D. J.; and Gopalakrishnan, C. A., 1977, *Indian J. Animal Research*, v. 11 (2), 74-76
 gastrointestinal helminths of sheep and goats: Coimbatore (Tamil Nadu)

India

Chhabra, M. B.; and Mahajan, R. C., 1978, *Indian J. Animal Sc.*, v. 48 (12), 929-931
 intestinal parasites, prevalence in stray and pet dogs: Chandigarh, India (*Ancylostoma caninum*; *Toxocara canis*; *Dipylidium caninum*; *Taenia/Echinococcus* spp.; *Trichuris* sp.; *Isospora* spp.)

India

Gill, H. S.; and Gill, B. S., 1977, Ixodid ticks of domestic animals in the Punjab State, 69 pp.

India

Jagannath, M. S.; Muraleedharan, K.; and Hiregoudar, L. S., 1979, *Indian J. Animal Sc.*, v. 49 (11), 890-894
 ixodid ticks, cattle, seasonal prevalence: Bangalore, India
 (*Boophilus annulatus*; *B. microplus*; *Hyalomma marginatum isaaci*; *H. a. anatolicum*; *H. hus-saini*; *Haemaphysalis bispinosa*; *Haemaphysalis intermedia*; *Haemaphysalis spinigera*; *Rhipicephalus haemaphysaloides*; *R. sanguineus*; *Amblyomma integrum*)

India

Varma, S.; et al., 1977, *Haryana Agric. Univ. J. Research*, v. 7 (4), 221-225
 gastrointestinal nematodes, domestic pigs, incidence: Hissar, India
 (*Ascaris strongylina*; *Physoccephalus sexalatus*; *Simondsia paradoxa*; *Ascaris suum*)

India

Verma, P. C.; and Kalra, D. S., 1978, *Indian J. Animal Research*, v. 12 (2), 107-108
 parasites of young buffalo calves, prevalence decreases with age: Hissar
 (*Ascaris*; *Strongyloides*; *strongyles*; lung-worms; *Moniezia*; *Fasciola*; *coccidial oocysts*)

Indiana. See United States, Indiana.

Indices

Amaro, A.; and Sena, S., 1967, *Atas Soc. Biol. Rio de Janeiro*, v. 10 (6), 125-127
 [Opalinidae], paratypes of species in Metcalf collection deposited in American Museum of Natural History: United States

Indices

Ayala, S. C., 1978, *J. Protozool.*, v. 25 (1), 87-100
Plasmodium from reptiles, checklist, host index, annotated bibliography

Indices

Bailly-Choumara, H.; Morel, P. C.; and Rageau, J., 1974, *Bull. Soc. Sc. Nat. et Phys. Maroc*, v. 54 (1-2), 71-80
 catalogue of ticks of Morocco

Indices

Chubb, J. C., 1977, A review of parasite fauna of the fishes of the River Dee System, 107 pp.
 parasites of fishes, literature review, parasite and host lists, notes on parasite biology and fishery management: River Dee System

Indices

Dale, W. E., 1977, *Rev. Peruana Entom.*, v. 20 (1), 100-102
 bibliography of Ixodoidea from Peru, parasite list with geographical distribution and hosts

Indices

Ernst, C. H.; and Ernst, E. M., 1979, *Bull. Maryland Herpetol. Soc.*, v. 15 (1), 1-15
 synopsis of protozoans parasitic in native turtles of the United States and Canada

Indices

- Ernst, E. M.; and Ernst, C. H., 1977, Bull. Maryland Herpetol. Soc., v. 13 (1), 1-75
synopsis of helminths endoparasitic in native turtles of the United States, Canada, and Mexico, and foreign records for helminths of sea turtles

Indices

- Fain, A., 1977, Rev. Zool. Africaine, v. 91 (1), 83-116
Turbinoptidae, list of species with hosts and geographic localities

Indices

- Graber, M., 1975, Bull. Animal Health and Prod. Africa, v. 23 (1), 57-85
helminths, domestic and wild animals, host-parasite list: Ethiopia

Indices

- Hallas, T. E., 1978, Entom. Medd., København, v. 46 (1), 27-45
check list of Danish Acari

Indices

- Kagei, N., 1973, Snake, v. 5 (1-2), 141-150
macroscopic endoparasites of snakes recorded in Japan

Indices

- Lebedev, B. I., 1979, Zool. Anz., Jena, v. 202 (1-2), 99-104
number of families, genera, and species of monogeneans of subclass Oligonchoinea presently registered from marine fishes

Indices

- Levine, N. D., 1976, Tr. Am. Micr. Soc., v. 95 (4), Finley Mem. Issue, pt. 2, 695-702
Lecudina, revision, checklist of species together with synonyms, hosts, body locations, geographic distribution, and key references

Indices

- Lewis, R. E., 1974, J. Med. Entom., v. 11 (2), 147-167
Hystrichopsyllidae, geographical distribution and host preferences, list of genera and species

Indices

- Lewis, R. E., 1974, J. Med. Entom., v. 11 (4), 403-413
Coptopsyllidae, Pygiopsyllidae, Stephanocircidae, Xiphiopsyllidae, world-wide distribution by zoogeographic regions, host preferences; list of genera and species

Indices

- Lewis, R. E., 1975, J. Med. Entom., v. 11 (6), 658-676
Ceratophyllidae, geographical distribution and host preferences, list of genera and species

Indices

- Martins, W., jr.; and Freitas, M. G., 1975, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 27 (3), 309-324
helminth parasites, domestic animals, checklist: Brasilia, DF and other regions of State of Goias, Brazil

Indices

- Masi Pallares, R.; Benitez Usher, C.; and Maciel, S., 1976, Rev. Paraguaya Microbiol., v. 11 (1), 43-59
index of helminths reported from Paraguay

Indices

- de Melo, H. J. H.; and Ribeiro, H. S., 1977, Arq. Escola Vet. Univ. Fed. Minas Gerais, v. 29 (2), 161-164
check-list of helminth parasites, domestic animals, literature and original survey, 1972-1976: State of Mato Grosso, Brazil

Indices

- Mohammed, A. N., 1977, Samaru Misc. Paper (74), 18 pp.
Ixodoidea, domestic animals, literature review: Nigeria

Indices

- Odening, K., 1978, Ang. Parasitol., v. 19 (1), 58-62
list of Trematoda in GDR, supplemented with hosts, habitats, and specific geographic localities

Indices

- Odening, K., 1978, Ang. Parasitol., v. 19 (3), 168-186
conclusion of systematic list of trematodes and their host species recorded from German Democratic Republic and adjacent region of Baltic Sea

Indices

- Schillhorn van Veen, T. W.; Shonekan, R. A. O.; and Fabiyi, J. P., 1975, Bull. Animal Health and Prod. Africa, v. 23 (3), 269-288
host-parasite checklist of helminth parasites of domestic animals, geographical distribution and rough prevalence rate: Northern Nigeria

Indices

- Sonin, M. D.; and Larchenko, T. T., 1974, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 24, 173-181
nematodes of birds of Tuvinsk ASSR

Indices

- Tenorio, J. M., 1979, Pacific Insects, v. 20 (1), 5-17
Mallophaga, catalog of holotypes and allotypes deposited in Bishop Museum, Hawaii with supplemental information on hosts and localities

Indices

- Young, P. C., [1972], An. Inst. Biol., Univ. Nac. Mexico, v. 41 (1), s. Zool., 1970, 163-175
Monogeneoidea, species recorded from Australian fishes, notes on their zoogeography

Indonesia

- Cross, J. H.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (4), 532-536
biomedical survey for evidence of parasitic and other infectious diseases in villagers of Irian Jaya, (West Irian), Indonesia (Entamoeba histolytica, E. hartmanni; E. coli; Endolimax nana; Giardia lamblia; Chilomastix mesnili; Ascaris lumbricoides; Trichuris trichiura; hookworm; dicrocoelid-like eggs; Wuchereria bancrofti; Plasmodium falciparum; P. vivax)

Indonesia

Joesoef, A.; and Cross, J. H., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (4), 480-488

filariasis, human, distribution and prevalence, age-sex distribution, implications for economic development programs involving resettlement of populations from non-endemic to endemic areas: Indonesia

Indonesia

Watten, R. H.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (1), 20-24

survey for human intestinal and blood parasites and antibodies to infectious diseases: Waai, Ambon and Kairatu, Ceram in the Moluccan group of islands of Indonesia (Entamoeba histolytica; E. coli; Endolimax nana; Giardia lamblia; Chilomastix mesnili; Ascaris lumbricoides; Trichuris trichiura; hookworm; Strongyloides stercoralis; heterophyid; Plasmodium vivax)

Indonesia, Borneo

Hadidjaja, P.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (3), 442-443

intestinal parasites, human, survey, no evidence of schistosomiasis: Mangkahui village, Central Kalimantan, Indonesia (hookworm; Ascaris lumbricoides; Trichuris trichiura; Enterobius vermicularis; Entamoeba coli; E. histolytica; E. hartmanni; Iodamoeba buetschlii; Giardia lamblia; Chilomastix mesnili; Plasmodium vivax)

Indonesia, Celebes

Carney, W. P.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 380-389

survey, intestinal and blood parasites of man in remote areas of Central and South Sulawesi, Indonesia (Entamoeba histolytica; E. coli; Iodamoeba buetschlii; Giardia lamblia; Ascaris lumbricoides; Trichuris trichiura; hookworm; Enterobius vermicularis; Strongyloides stercoralis; Trichostrongylus sp.; Physaloptera sp.; Diphyllbothrium sp.; Schistosoma japonicum; heterophyid; echinostome; microcoelid-like trematodes; Endolimax nana; Chilomastix mesnili; Plasmodium falciparum; P. vivax; P. malariae; Brugia malayi)

Indonesia, Celebes

Cross, J. H.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 390-399

survey, human intestinal and blood parasites: Minahasa Peninsula, North Sulawesi, Indonesia (Entamoeba histolytica; E. hartmanni; E. coli; Endolimax nana; Iodamoeba buetschlii; Giardia lamblia; Ascaris lumbricoides; Trichuris trichiura; hookworm; Plasmodium vivax; P. falciparum; Enterobius vermicularis; Taenia sp.; Hymenolepis nana; H. diminuta; Echinostoma sp.; microcoelid-like eggs and Chilomastix mesnili)

Indonesia, Celebes

Joseph, S. W.; et al., 1978, Southeast Asian J. Trop. Med. and Pub. Health, v. 9 (2), 264-271

human parasitoses, prevalence by village, age, and sex: Malili area, South Sulawesi (Celebes) Province, Indonesia (Entamoeba histolytica; E. hartmanni; E. coli; Endolimax nana; Iodamoeba buetschlii; Giardia lamblia; Chilomastix mesnili; Enterobius vermicularis; Trichuris trichiura; Ascaris lumbricoides; hookworm; Plasmodium falciparum; P. vivax; Brugia malayi)

Indonesia, Celebes

Putrali, J.; et al., 1977, Southeast Asian J. Trop. Med. and Pub. Health, v. 8 (3), 375-379

human intestinal and blood parasite survey in 4 villages of Banggai Kabupaten, Central Sulawesi, Indonesia (Entamoeba histolytica; E. coli; Iodamoeba buetschlii; Giardia lamblia; Chilomastix mesnili; Ascaris lumbricoides; Trichuris trichiura; hookworm; Enterobius vermicularis; Plasmodium vivax; P. falciparum; malaria; Brugia malayi)

Indonesia, New Guinea. [See also Papua New Guinea]

Indonesia, New Guinea

Jueptner, H., 1978, Acta Trop., v. 35 (1), 83-98

medical examination of pygmies in isolated region of central Highland reveals among other findings heavy infestation with intestinal worms: Irian-Jaya, Indonesisch Neu Guinea (Ascaris; Ankylostoma) duod[enale]; Trich[uris] trich[iura])

Infectivity. [See also Pathogenicity]

Infectivity

Abdalla, H. S.; Hussein, H. S.; and Kreier, J. P., 1978, J. Parasitol., v. 64 (3), 554-556

Babesia rodhaini, centrifugation times and speeds to obtain maximum yield of free parasites following passage of infected blood through sonic oscillation field, infectivity of free parasites in comparison to that of infected red blood cells

Infectivity

Anderson, R. M., 1978, Parasitology, v. 77 (2), 201-224

snail infection by miracidia, population framework and Basic Model, rate of infection, infective stage density, host density, role of chance, miracidial mortality and age-dependent infectivity, heterogeneity between snails with respect to susceptibility and 'attractiveness'

Infectivity

de Arruda-Mayr, M.; Cochrane, A. H.; and Nussenzweig, R. S., 1979, Am. J. Trop. Med. and Hyg., v. 28 (4), 627-633

Plasmodium knowlesi infection in Macaca mulatta terminated by curative therapy and followed by P. cynomolgi infection greatly increases gametocyte infectivity of latter species

Infectivity

- Augustine, P. C.; Vetterling, J. M.; and Doran, D. J., 1977, *Proc. Helminth. Soc. Washington*, v. 44 (2), 147-149
Eimeria tenella, comparison of amprolium- and buquinolate-resistant strains to a drug-sensitive strain with respect to (1) oocyst production in chicks and (2) infectivity, rate of development, and oocyst production in primary chick kidney cell cultures

Infectivity

- Barretto, M. P.; Ribeiro, R. D.; and Belda Neto, F. M., 1978, *Rev. Brasil. Biol.*, v. 38 (4), 771-773
Trypanosoma cruzi, strains isolated from human cases of Chagas' disease and from infected triatomines and wild Brazilian mammals, behavior in Ricman and Robson's blood incubation infectivity test

Infectivity

- Brown, B. J.; and Platzer, E. G., 1978, *J. Nematol.*, v. 10 (2), 110-113
Romanermis culicivora, effect of various dissolved oxygen concentrations at various temperatures on infectivity for *Culex pipiens*

Infectivity

- Bunnag, T.; de Freitas, J. R.; and Scott, H. G., 1978, *Southeast Asian J. Trop. Med. and Pub. Health*, v. 9 (1), 41-47
Schistosoma mansoni, sewage stabilization ponds efficient barrier against transmission, laboratory and field experiments, egg hatchability, miracidia infectivity, and survival of *Biomphalaria glabrata*

Infectivity

- Cabaret, J., 1979, *Ann. Parasitol.*, v. 54 (4), 475-482
larval protostrongylids, infectivity for several species of helioids in relation to fecal vs. pulmonary origin of larvae and to age of larvae

Infectivity

- Chiari, E., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (2), 61-67
Trypanosoma cruzi, mice, culture forms (Y and MR strains) previously kept for 1 1/2 to 18 years without animal passage, infectivity compared

Infectivity

- Croft, S. L.; and Molyneux, D. H., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (3), 213-226
Leishmania hertigi hertigi, *L. h. deanei*, ultrastructure of promastigotes, amastigotes and virus-like particles observed within promastigotes; laboratory mammals were poor hosts with infection detectable only by culture, laboratory-bred *Lutzomyia longipalpis* developed poor infections

Infectivity

- Cunningham, I.; and Taylor, A. M., 1979, *J. Protozool.*, v. 26 (3), 428-432
Trypanosoma brucei, restoration of infectivity of various stocks cultivated at 28 C with tsetse fly salivary glands

Infectivity

- Daggett, P. M.; Decker, J. E.; and Janovy, J., 1978, *Comp. Biochem. and Physiol.*, v. 59A (4), 363-366
6 insect trypanosomatids, attempted adaptation to mice, alteration of component elements of excreted factors (EF) produced by the 3 adapted species, EF components of *Leishmania donovani* isolates differ with varying infectivity for hamsters

Infectivity

- Dalgliesh, R. J.; and Stewart, N. P., 1978, *Austral. Vet. J.*, v. 54 (9), 453-454 [Letter]
Babesia bigemina, *B. bovis*, development, in incubated *Boophilus microplus* eggs, and *B. bigemina* in unfed larval ticks held at 37°C, infectivity for calves, results indicate that high environmental temperature may be only stimulus required for development of infective *Babesia* within the tick

Infectivity

- Dalgliesh, R. J.; and Stewart, N. P., 1979, *Internat. J. Parasitol.*, v. 9 (2), 115-120
Babesia bovis, morphology, development, and infectivity for cattle of parasites in unfed *Boophilus microplus* larvae after incubation at various temperatures

Infectivity

- Davis, B. O., jr., 1975, *Acta Parasitol. Polon.*, v. 23 (12-25), 229-236
Hymenolepis microstoma, effects of cysticeroid age on morphology, excystation in vitro, and infectivity for mice

Infectivity

- Eveland, L. K.; and Morse, S. I., 1978, *Exper. Parasitol.*, v. 45 (1), 19-25
Schistosoma mansoni, in vitro derived schistosomula attenuated by x-irradiation, infectivity and immunizing potential, mice

Infectivity

- Fried, B.; and Butler, M. S., 1978, *J. Parasitol.*, v. 64 (1), 175-177
Echinostoma revolutum metacercaria: bicarbonate pretreatment significantly enhanced infectivity in domestic chick; chemical excystation; development on chick chorioallantois

Infectivity

- Funayama, G. K.; and Prado, J. C., jr., 1974, *Rev. Soc. Brasil. Med. Trop.*, v. 8 (2), 75-81
Trypanosoma cruzi, strain isolated from *Triatoma infestans* captured in Vitichi, Bolivia, severe pathogenicity for mice, mice recovered from infection have high resistance against reinfection by the Y strain, Bolivia strain easily cultured and regularly infective for several triatomines

Infectivity

- Ghiotto, V.; et al., 1979, *Exper. Parasitol.*, v. 48 (3), 447-456
Trypanosoma brucei, morphometric changes and loss of infectivity and of surface coat during transformation of bloodstream forms to procyclic culture forms in vitro

Infectivity

Grant, D.; and Woo, P. T. K., 1978, *Canad. J. Zool.*, v. 56 (6), 1360-1366

Giardia spp. in small mammals, comparative studies, results suggest host specificity of some spp., infectivity of stored cysts varies with temperature, lack of prophylactic effect in rats treated with metronidazole or quinacrine hydrochloride

Infectivity

Gray, M. A.; et al., 1979, *Tr. Roy. Soc. Trop. Med. and Hyg.*, v. 73 (4), 406-408

Trypanosoma congolense, maintenance of infectivity in vitro with explants of infected skin incubated at 37°C

Infectivity

Hellesnes, I.; and Mohn, S. F., 1977, *Zentralbl. Bakteriolog., 1. Abt. Orig., Reihe A*, v. 238 (1), 143-148

Toxoplasma gondii cysts, infectivity for white mice after various periods of freezing, role of low temperatures as limiting factor in epidemiology of toxoplasmosis

Infectivity

Holanda, J. C.; et al., 1976, *Rev. Inst. Med. Trop. S. Paulo*, v. 18 (6), 410-414

Schistosoma mansoni, cercariae, schistosomules, and intermediate forms obtained in vitro, infectivity for mice, worm recovery

Infectivity

Holanda, J. C.; and Pellegrino, J., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (3), 127-131

Schistosoma mansoni, schistosomulae recovered from skin or lungs of mice, infectivity to mice when injected by various routes

Infectivity

Holanda, J. C.; Pellegrino, J.; and Gazzinelli, G., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (3), 132-134

Schistosoma mansoni, infectivity of cercariae and in vitro-obtained schistosomula injected intravenously or subcutaneously into mice

Infectivity

Holbrook, T. W.; and Parker, B. W., 1979, *Am. J. Trop. Med. and Hyg.*, v. 28 (6), 984-987

Naegleria fowleri incubated on chick embryos, effects of embryo age and temperature on maintenance, infectivity maintained after 25 serial passages

Infectivity

Ito, S.; et al., 1977, *Nippon Zyuishi-Kai Zasshi (J. Japan Vet. Med. Ass.)*, v. 30 (6), 326-329

Dictyocaulus viviparus, calves, winter survival of infective larvae, decreased infectivity

Infectivity

James, C.; and Prah, S. K., 1978, *J. Helminth.*, v. 52 (3), 221-226

Schistosoma mansoni, *S. haematobium*, penetration efficiency and selective capacity of miracidia based on infection rates produced in *Bulinus pfeifferi* and *B. globosus* respectively, scanning capacity also compared in increasing volumes of water, over increasing horizontal distances, and in running water of different flow rates, effect of miracidial density, epidemiological implications

Infectivity

Joshua, R. A.; Herbert, W. J.; and White, R. G., 1978, *Lancet*, London (8066), v. 1, 724-725 [Letter]

Trypanosoma brucei brucei, acquisition of potential infectivity for man (resistance to normal human serum when tested by blood incubation infectivity test) after maintenance in domestic hens, suggests birds as potential reservoirs of trypanosomes of *brucei* group

Infectivity

Kassim, O. O.; and Richards, C. S., 1979, *Internat. J. Parasitol.*, v. 9 (6), 565-570

Schistosoma mansoni, host reactions to miracidia in 2 strains of *Biomphalaria glabrata*, involving variations in parasite strains and in numbers and sequences of exposures

Infectivity

Kaya, H. K., 1977, *J. Invert. Path.*, v. 30 (2), 192-198

Vairimorpha necatrix (potential biological control agent), survival (infectivity) of spores exposed to sunlight, ultraviolet radiation, and high temperature, laboratory and field tests

Infectivity

Kaya, H. K., 1979, *Proc. Hawaiian Entom. Soc.* (1976), v. 13 (1), 91-94

Pleistophora sp., *Vairimorpha necatrix*, retention of infectivity after passage through gut of *Zelus exsanguis*

Infectivity

Kerboeuf, D., 1978, *Ann. Recherches Vet.*, v. 9 (1), 153-159

Heligmosomoides polygyrus, mice, infectivity of third-stage larvae, storage time and temperature, larvae lose infectivity when they age, maturation period required for maximum infectivity

Infectivity

Kerboeuf, D., 1978, *Ann. Recherches Vet.*, v. 9 (1), 161-168

Heligmosomoides polygyrus, mice, low infectivity of third-stage larvae resulted in greater fecundity of female worm and vice versa, egg-output of worm increased when worm burden was smaller, decreased with greater worm burden

Infectivity

Khan, R. A., 1977, *Canad. J. Zool.*, v. 55 (10), 1698-1700

Trypanosoma murmanensis, infectivity of different morphotypes in fish hosts to the leech vector (*Johanssonia* sp.)

Infectivity

Kolevatova, A. I., 1974, *Parazitologiya*, Leningrad, v. 8 (1), 49-52

Metastrongylus elongatus, larvae in *Eisenia foetida* under laboratory conditions retain their ability to infect pigs and guinea pigs for up to 7 years

Infectivity

Kumar, V.; Geerts, S.; and Mortelmans, J., 1977, *Ann. Soc. Belge Med. Trop.*, v. 57 (3), 181-184

Cysticercus bovis, failure of 74-day-old cysts to develop in exper. infected apes, monkeys, and hamsters, cysts apparently too immature; hamster (intestine) successfully infected with 89-day-old cyst

Infectivity

Landau, I.; et al., 1979, Compt. Rend. Acad. Sc., Paris, v. 288, s. D, Sc. Nat. (5), 521-522
Plasmodium yoelii, gametocytes, morphological characters as indication of age, infectivity, and periodicity

Infectivity

Landau, I.; et al., 1979, Ann. Parasitol., v. 54 (2), 145-161
Plasmodium yoelii, gametocytes, morphology, development, infectivity

Infectivity

Lazdynia, M. A.; and Grinberga, M. A., 1978, Ang. Parasitol., v. 19 (4), 202-207
Ascaridia galli, eggs cultured in acid medium, neutralization of culture medium prior to experimental infection in chickens increased infectivity and establishment of larvae in host

Infectivity

Lengy, J., 1974, Israel J. Zool., v. 22 (2-4), 1973, 75-82
Strongyloides ratti filariform larvae, albino rats (exper.), viability and infectivity after exposure to various temperature regimes

Infectivity

Levy, R.; and Miller, T. W., jr, 1977, Mosquito News, v. 37 (3), 410-414
Romanomermis culicivorax as biological control agent of *Culex quinquefasciatus*, polluted water had little or no adverse effect on viability, infectivity, or development of nematode: Sanibel Island, Lee County, Florida

Infectivity

Lyons, E. T.; and Keyes, M. C., 1978, J. Parasitol., v. 64 (3), 454-458
Uncinaria lucasi in *Callorhinus ursinus*, differential infectivity in pups of parasitic 3rd stage larvae from belly tissues of bulls and bachelors vs. those from pregnant cows, also appears to be relationship between size of larvae and their maturation capability, pregnancy hormones may provide explanation

Infectivity

Matuschka, F. R.; and Werner, H., 1978, Zentralbl. Bakteriол., 1. Abt. Orig., Reihe A, v. 240 (3), 388-396
Toxoplasma bradyzoites from *Mastomys natalensis* (cerebral tissue), not infectious or able to replicate after 24 hours of storage under freezing at -20°C, no intact bradyzoites demonstrable, changes in structure and substance of cells and cysts

Infectivity

Mills, C. A., 1979, Internat. J. Parasitol., v. 9 (6), 603-608
Transversotrema patialense, cercarial, post-cercarial, and adult stages, influence of differing ionic environments on survival and infectivity

Infectivity

Moser, G.; et al., 1978, J. Protozool., v. 25 (1), 119-124
Plasmodium berghei, *P. knowlesi*, *P. cynomolgi*, purification of sporozoites by passage through DEAE-cellulose column, retention of ability to produce infection, to induce protective immunity, and to react with known antisera

Infectivity

Petana, W. B.; and Coura, J. R., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (6), 315-323
Trypanosoma cruzi, comparison of 9 strains isolated from man, animals, and triatomine bugs, host pathology, virulence, infectivity, importance of strain differentiation: Brazil

Infectivity

Petersen, J. J., 1979, J. Nematol., v. 11 (1), 105-106
Romanomermis culicivorax, effect of pH on infectivity to *Culex pipiens quinquefasciatus*

Infectivity

Pye, D.; and Cox, J. C., 1979, Lab. Animals, v. 13 (3), 193-195
Encephalitozoon cuniculi, in vitro infectivity assay based on enumeration of lesions which appear as macroscopically distinct foci in cell cultures

Infectivity

Ribeiro, R. D.; and Pereira Barretto, M., 1977, Rev. Brasil. Biol., v. 37 (2), 233-239
Trypanosoma cruzi, strain isolated from *Dasyprocta a. aguti* (blood), possible reservoir, infectivity to triatomines and mice, mice protected against subsequent infection by human strain: Colatina, E. S., Brasil

Infectivity

Samish, M.; and Pipano, E., 1978, Parasitology, v. 77 (3), 375-379
 time-course for development of infectivity in *Hyalomma detritum* ticks fed as pre-imagoes on *Theileria annulata*-infected calves, unfed adults derived from infected nymphs were non-infectious whereas ticks of both sexes that had fed for 2-3 days or longer on calves or rabbits were always infectious

Infectivity

Sato, Y.; et al., 1979, Nippon Eyuishi-Kai Zassi (J. Japan Vet. Med. Ass.), v. 32 (3), 145-148
Fasciola, survival of metacercariae encysted on rice straws and polyethylene sheets in field, infectivity to mice measured monthly: Sendai, northern Japan

Infectivity

Sauerlaender, R., 1979, Ztschr. Parasitenk., v. 59 (1), 53-66
Muellerius capillaris in *Cepaea nemoralis* (exper.), exposure period, developmental period from 1st to 3rd stage larvae, individual exposure vs. mass exposure, super-infections, infectivity following storage below freezing-point, localization of larvae, host cellular reaction

Infectivity

Shadduck, J. A.; and Polley, M. B., 1978, J. Protozool., v. 25 (4), 491-496
Encephalitozoon cuniculi, propagation in vitro using rabbit choroid plexus (RCP) cells, some factors influencing infectivity and replication (passage level of organisms; passage level, age, and source of RCP cells; antibiotics; storage time and temperature including freezing; elevated temperature; chemical disinfectants; centrifugation; physical and chemical treatments)

Infectivity

- Siddiqi, M. N.; and Meerovitch, E., 1976, Pakistan J. Zool., v. 8 (2), 183-189
Trichinella spiralis, 6 strains, relative infectivity to albino rats, variable infectivity appears to be due to strain differences in transmission cycles and to natural host resistance

Infectivity

- Siddiqi, M. N.; and Meerovitch, E., 1976, Pakistan J. Zool., v. 8 (2), 191-197
Trichinella spiralis, 6 strains, relative infectivity in mice, guinea pigs, and 2 strains of rats (albino Wistar and hooded), role of host resistance

Infectivity

- Siddiqi, M. N.; and Meerovitch, E., 1977, Pakistan J. Zool., v. 9 (1), 47-50
Trichinella spiralis, stability of 4 strains, no significant increase in infectivity after 5-8 serial passages through rats although individual variations from one passage to another were observed

Infectivity

- Srivastava, P. S.; and Sharma, N. N., 1978, Vet. Parasitol., v. 4 (1), 83-89
Theileria annulata-infected nymphs, adults, and ground tissues of *Hyalomma anatolicum*, infectivity for calves, all capable of inducing clinical theileriasis

Infectivity

- Stewart, N. P., 1978, J. Protozool., v. 25 (4), 497-501
Babesia bovis, vaccine (NT) strain, unmodified (T) strain, differential infectivity for *Boophilus microplus*, differences observed in parasite structure in gut contents following ingestion by tick, NT strain was incapable of penetrating epithelial cells of tick gut

Infectivity

- Stone, W. M.; Stewart, T. B.; and Smith, F., 1979, J. Parasitol., v. 65 (3), 460-461
Ancylostoma caninum, longevity and infectivity of tissue phase larvae in guinea pigs and swine, both shown to be potential paratenic hosts

Infectivity

- Tarczynski, S.; and Szepelski, L., 1970, Acta Parasitol. Polon., v. 18 (42-50), 513-519
Fasciola hepatica metacercariae, longevity and infectivity in hay, effect of different methods of hay drying used in Poland, concluded that hay may contain infective metacercariae in spite of adequate drying methods, only proper ensilage of green roughage makes it safe from infective forms of liver fluke

Infectivity

- Van Meirvenne, N.; Janssens, P. G.; and Magnus, E., 1973, Ann. Soc. Belge Med. Trop., v. 53 (1), 49-56
Trypanosoma brucei, blood incubation infectivity test, influence of several factors on process of lysis and neutralization of *T. brucei* in human serum

Infectivity

- Van Meirvenne, N.; Magnus, E.; and Janssens, P. G., 1976, Ann. Soc. Belge Med. Trop., v. 56 (1), 55-63
Trypanosoma brucei rhodesiense, serum-incubation-infectivity-tests on clone populations of distinct antigenic types

Infectivity

- Weiss, M. L., 1978, Israel J. Med. Sc., v. 14 (5), 554-556
Plasmodium berghei, infectivity and immunogenicity, symposium presentation

Infectivity

- Werner, H.; Springer, D.; and Koehler, H., 1977, Zentralbl. Bakteriell., 1. Abt. Orig., Reihe A, v. 239 (4), 557-564
Trypanosoma cruzi-like-strain, morphology, frequency and density of parasites in *Sanguinus oedipus*, infectivity to monkeys and rodents, no clinical or histopathological findings, parasitaemia, development in cell cultures, cyclical development in *Rhodnius prolixus* and *Triatoma infestans*

Infectivity

- Wery, M.; et al., 1977, Ann. Soc. Belge Med. Trop., v. 57 (4-5), 425-439
Trypanosoma brucei gambiense strains from Zaire, comparative infectivity in various laboratory animals

Infectivity

- Young, A. S., 1977, Tropenmed. u. Parasitol., v. 28 (4), 521-527
Theileria mutans, infectivity for cattle of parasites derived from prefed *Amblyomma variegatum* nymphs

Infectivity

- Young, A. S.; Leitch, B. L.; and Omwoyo, P. L., 1979, Vet. Rec., v. 105 (23), 531-533
Theileria parva, induction of infective stages in salivary glands of infected unfed *Rhipicephalus appendiculatus* by exposure of ticks to high temperature, epidemiological significance

Infectivity

- Zeledon, R.; de Trejos, M.; and Chinchilla, M., 1977, Protozoology, v. 3, 95-101
Trypanosoma cruzi trypomastigotes, mice, infectivity of blood, culture, and insect forms by 6 routes

Inhibited development. See Development.Integument. [See also Cuticle; Parasite surfaces; Skin; Tegument]

Integument

- Barabashova, V. N., 1971, Parazitologiya, Leningrad, v. 5 (5), 446-454
 8 species of *Acanthocephala*, integument, structure and function, histological and histochemical investigations

Integument

- Ciampor, F.; and Nosek, J., 1978, Ang. Parasitol., v. 19 (3), 154-158
Dermacentor marginatus, nymphs, ultrastructure of integumentary glands and mechanoreceptive setae

Integument

- Cornford, E. M.; and Oldendorf, W. H., 1979, J. Parasitol., v. 65 (3), 357-363
Schistosoma mansoni, new method for measuring transintegumental uptake in individual male and female worms, application to uptake of glucose and selected amino acids

Integument

- Graeber, K.; and Storch, V., 1979, Zool. Anz., Jena, v. 202 (5-6), 331-347
 cestodes, trematodes, integument, scanning and transmission electron microscopy, morphology

Integument

- Kuntz, R. E.; et al., 1979, *J. Helminth.*, v. 53 (2), 131-132
Schistosoma bovis, integument surfaces, scanning electron microscopy

Integument

- McEnroe, W. D., 1973, *Acarologia*, v. 14 (4), 542-543
Dermacentor variabilis, general integument as the site of water vapor uptake

Integument

- Nahif, A. A., 1978, *Ang. Parasitol.*, v. 19 (3), 162-167
Przhevalskiana silenus, ontogenesis of integument during different larval stages, histomorphology

Integument

- Saito, T., 1977, *Kiseichugaku Zasshi* (Japan. *J. Parasitol.*), v. 26 (3), 132-143
Clonorchis sinensis, cercarial integument, ultrastructure

Integument

- Silk, M. H.; and Spence, I. M., 1969, *South African J. Med. Sc.*, v. 34 (4), 93-104
Schistosoma mansoni, adults, nerve tissue and processes that form sensory bulbs on surface of integument, ultrastructure

Integument

- Silk, M. H.; Spence, I. M.; and Gear, J. H. S., 1969, *South African J. Med. Sc.*, v. 34 (1), 1-10
Schistosoma mansoni, adults, integument, ultrastructure

Integument

- Singh, G.; and Lee, R. E., 1979, *Arch. Path. & Lab. Med.*, v. 103 (9), 459-462
 hydatid cyst, girl (right lobe of liver), ultrastructure, with particular study of integument: immigrated from Greece

Integument

- Timofeev, V. A.; and Kuperman, B. I., 1973, *Parazitologiya*, Leningrad, v. 7 (4), 339-348
Triaenophorus nodulosus, changes in ultrastructure of body surface during development from oncosphere into proceroid

Integument

- Tulloch, G. S.; et al., 1977, *Tr. Am. Micr. Soc.*, v. 96 (1), 41-47
Schistosoma mattheei, surface structures of integument suggest basic adaptations for clasping of male and female schistosomes and for parasite attachment to host, scanning electron microscopy; taxonomic implications

Intelligence

- Castle, W. M.; Clarke, V. de V.; and Hendrikz, E., 1974, *South African Med. J.*, v. 48 (48), 2035-2038
 subclinical bilharziasis, schoolchildren, scholastic achievement, does not affect intelligence but causes susceptibility to mental fatigue thus affecting test scores and speed of productivity: Marandellas district, South Africa

Intelligence

- Piekarski, G.; Zippelius, H. M.; and Witting, P. A., 1978, *Ztschr. Parasitenk.*, v. 57 (1), 1-15
Toxoplasma gondii, laboratory mice and rats, latent infection, diminished learning ability

Interferon. [See also Immunity]

Interferon

- Ahronheim, G. A., 1979, *Proc. Soc. Exper. Biol. and Med.*, v. 161 (4), 522-526
Toxoplasma gondii, lack of interaction with classical interferon system in cells of human origin

Interferon

- Clark, I. A., 1979, *Infect. and Immun.*, v. 24 (2), 319-325
Babesia spp., *Plasmodium vinckei petteri*, mice, protection conferred by pretreatment with extract of *Coxiella burnetii*, possible involvement of interferon or tumor necrosis factor

Interferon

- Glaz, E. T., 1979, *Ann. Trop. Med. and Parasitol.*, v. 73 (1), 83-84
Trypanosoma equiperdum-infected white mice, survival of mice was not extended by administration of low molecular weight interferon inducers

Interferon

- Sauvager, F.; and Fauconni r, B., 1978, *Bio-medicine Express*, v. 29 (6), 184-187
Plasmodium berghei, mice, protective effect of endogenous interferon in mouse malaria demonstrated by increase in death rate and in % parasitized erythrocytes in infected mice treated with anti-interferon globulins

Interferon

- Talas, M.; and Glaz, E. T., 1979, *J. Infect. Dis.*, v. 139 (5), 595-598
Trypanosoma equiperdum, mice, induction of type I interferon from day 1 after infection until death on day 5

Intestinal parasites

- Monroe, L. S., 1979, *Current Therapy* (Conn), 388-392
 intestinal parasites, human, drug therapy, review

Intestine, Host

- Ajao, O. G.; and Ajao, A. O., 1979, *Trop. Doctor*, v. 9 (1), 33-36
Ascaris lumbricoides, humans, intestinal obstruction and surgical complications of intestinal ascariasis

Intestine, Host

- Almeida, H. O.; et al., 1977, *Virchows Arch. A, Path. Anat. and Histol.*, v. 376 (4), 353-360
Trypanosoma cruzi, mice, acute phase of infection, decrease in substance P activity of colon could be related to reduction in total number of dense vesicles in Auerbach's plexus

Intestine, Host

- Alvarez-Cordero, R., 1973, *Rev. Brasil. Med.*, v. 30 (11), 688-691
Entamoeba histolytica, human infections in presence of intestinal complications as appendicitis, colitis, amebomas, clinical management

Intestine, Host

- Andrade, Z. A.; and Melo, I. S., 1974, Rev. Patol. Trop., v. 3 (2), 143-151
Schistosoma mansoni, finding on 19 autopsies of peri-intestinal fibrosis involving segments of the colon or rectum and sometimes extending to retro-peritoneal tissue, presentation as hard intestinal mass, apparent pathologic picture of human advanced schistosomiasis complicated by portal hypertension

Intestine, Host

- Bhandari, B.; and Sankhla, K., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (3), 345-346 [Letter]
Entamoeba histolytica-associated rectal prolapse in children, di-iodoquine and metronidazole

Intestine, Host

- Blenkinsopp, W. K.; Gibson, J. A.; and Haffenden, G. P., 1978, Lancet, London (8071), v. 1, 994 [Letter]
Giardia lamblia, case report of infection in elderly woman resulting in severe atrophy of jejunal mucosa with dense plasma-cell infiltrate, complete recovery after therapy with metronidazole: England (had traveled to Far East)

Intestine, Host

- Bueno, L.; Ruckebusch, Y.; and Dorchies, Ph., 1979, Vet. Parasitol., v. 5 (2-3), 253-260
 strongyle-infected ponies (nat. and exper.), disturbances of digestive motility, effect of mebendazole treatment

Intestine, Host

- Castro, G. A.; Hessel, J. J.; and Whalen, G., 1979, Parasite Immunol., v. 1 (4), 259-266
Trichinella spiralis, rats, intestinal fluid movement in response to primary or secondary infection, relationship to prevention of worm establishment

Intestine, Host

- Castro, L. de P.; et al., 1971, Rev. Inst. Med. Trop. S. Paulo, v. 13 (2), 103-109
Schistosoma mansoni, human, jejunum, pathology, peroral biopsy

Intestine, Host

- Cohen, J.; and Spry, C. J. F., 1979, Parasite Immunol., v. 1 (2), 167-178
Strongyloides stercoralis, West Indian man, associated small intestinal lymphoma causing obstruction, deficiency of T lymphocytes and eosinophils, lymphoma may have led to reduction in cellular immunity with subsequent development of *Strongyloides* hyperinfection

Intestine, Host

- da Cunha, A. S.; et al., 1977, Rev. Inst. Med. Trop. S. Paulo, v. 19 (6), 378-386
Entamoeba histolytica, patients from 3 geographic areas, endoscopic study of intestinal infections, histopathology, patients with symptoms vs. those without symptoms: Brazil

Intestine, Host

- Davies, N. J.; and Goldsmid, J. M., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (1), 107 [Letter]
Ascaris suum causing intestinal obstruction in 9-year-old girl, clinical case report: Salisbury, Rhodesia

Intestine, Host

- Dominguez Barranco, A., 1973, Rev. Cir. Hosp. Juarez, Mexico (187-188), v. 44, 1972-1973, 65-72
 human amoebiasis, acute fulminating colitis, amebomas, review of cases with emphasis on diagnosis, therapy, complications, surgical procedures

Intestine, Host

- Duszynski, D. W.; et al., 1978, J. Protozool., v. 25 (3, pt. 2), 370-374
Eimeria nieschulzi, rats, intestinal transit time during infection, on basis of findings it is difficult to implicate altered intestinal transit time in symptoms such as diarrhea which attend coccidiosis

Intestine, Host

- Duszynski, D. W.; Roy, S. A.; and Castro, G. A., 1978, J. Protozool., v. 25 (2), 226-231
Eimeria nieschulzi, structural and functional changes in small intestine of infected rats (increase in intestinal mass; changes in mucosal structure especially increased crypt depth; decrease in peroxidase levels in lamina propria; reduction of brush border disaccharidase activity), intensity of all changes was directly dose-dependent

Intestine, Host

- Fernando, M. A.; and McCraw, B. M., 1977, Ztschr. Parasitenk., v. 52 (3), 213-218
Eimeria acervulina-infected chickens, reduced time of generation cycle of duodenal crypt cells as measured by [³H]thymidine, increased population of dividing cells within each duodenal crypt; changes seem to result from induced changes in functional activity

Intestine, Host

- Ginani, F. F.; et al., 1976, AMB, Rev. Ass. Med. Brasil., v. 22 (9), 329-332
 Chagas disease, patients, acute dilatation of chagasic megacolon, clinical aspects, medical and surgical management, differential diagnosis: Brasil

Intestine, Host

- Hair, J. D.; and Holmes, J. C., 1975, Acta Parasitol. Polon., v. 23 (12-25), 253-269
 usefulness of measures of diversity, niche width, and niche overlap in analysis of helminth communities in waterfowl, data suggest hypothesis that intestinal helminth fauna of *Aythya affinis* (particularly hymenolepidids) is composed of chance combination of ecological specialists whose microhabitats and populations are determined in part by inter-specific interactions

Intestine, Host

- Hartong, W. A.; Gourley, W. K.; and Arvanitakis, C., 1979, Gastroenterology, v. 77 (1), 61-69
Giardia lamblia, patients, clinical spectrum and functional-structural abnormalities of small intestinal mucosa, treatment with metronidazole or quinacrine: Kansas Univ. Medical Center

Intestine, Host

- Huggins, D., 1974, Rev. Soc. Brasil. Med. Trop., v. 8 (6), 307-313
Schistosoma mansoni, man, stenosis of small bowel presenting as carcinoma, microscopic findings showed schistosomal infection, clinical case report: Catende, Pernambuco, Brazil

Intestine, Host

- Khovanskikh, A. E.; Krylov, M. V.; and Ludi-nova, I. C., 1974, *Parazitologiya*, Leningrad, v. 8 (2), 164-169
Eimeria tenella, chickens (exper.), absorp-tion of iron in small intestine, concentra-tion of iron in tissues and organs

Intestine, Host

- Lalama B., M., 1976, *Rev. Ecuator. Med. y Cien. Biol.*, v. 13 (1), 47-58
 human amoebiasis resulting in perforation of colon, case reports, clinical aspects, surgi-cal therapy

Intestine, Host

- MacDonald, T. T.; and Ferguson, A., 1978, *Gas-troenterology*, v. 74 (3), 496-500
Giardia muris, *Hexamita muris*, mice (exper.), effects of chronic infection on small intes-tinal epithelial cell kinetics

Intestine, Host

- Madden, P. A.; and Ruff, M. D., 1979, *J. Para-sitol.*, v. 65 (2), 234-242
Eimeria spp. in turkeys, effects on structural integrity of intestinal and cecal mucosa, scanning electron microscopy, comparison of damage with parasite distribution as seen by light microscopy

Intestine, Host

- Major, J. R., jr.; and Ruff, M. D., 1978, *J. Parasitol.*, v. 64 (4), 706-711
Eimeria spp.-infected broilers, reduced disaccharidase activity in region of intes-tine with maximum infection, this reduction is related to both time and severity of in-fection and can contribute to overall reduc-tion in nutrient absorption

Intestine, Host

- Mettrick, D. F.; Budziakowski, M. E.; and Po-desta, R. B., 1979, *Canad. J. Physiol. and Pharmacol.*, v. 57 (8), 882-886
Moniliformis dubius, net fluxes of electro-lytes in infected rat intestine

Intestine, Host

- Morrey, B.; and Wolma, F. J., 1972, *South. Med. J.*, v. 65 (6), 678-684
 intestinal amoebiasis, human, cicatricial stricture and other surgical pathology, surgical management, need for correct pre-operative diagnosis and antiamoebic therapy stressed

Intestine, Host

- Musaev, M. A.; and Surkova, A. M., 1972, *Para-zitologiya*, Leningrad, v. 6 (1), 11-15
Eimeria tenella-, *E. mitis*-infected chickens (exper.), changes in activity of alkaline and acid phosphatases of small intestine de-pend on species of coccidia, age of host, and stage of infection

Intestine, Host

- Musaev, M. A.; and Surkova, A. M., 1974, *Para-zitologiya*, Leningrad, v. 8 (2), 170-174
Eimeria tenella, chickens (exper.), acid and alkaline phosphatase activity of small intes-tinal mucosa, comparison of one infection (non-immune) vs. 3 successive infections (immune)

Intestine, Host

- Nawa, Y., 1979, *Internat. J. Parasitol.*, v. 9 (3), 251-255
Nippostrongylus brasiliensis-infected rats, increased permeability of gut mucosa is related to worm burden and neither to worm expulsion nor intestinal mast cell response, host strain difference in both worm burden kinetics and kinetics of intestinal perme-ability

Intestine, Host

- Okumura, M.; et al., 1974, *Rev. Inst. Med. Trop. S. Paulo*, v. 16 (5), 292-300
Ascaris lumbricoides, children, acute intes-tinal obstruction, 455 cases analyzed

Intestine, Host

- Olszewska, G. M., 1975, *Acta Parasitol. Polon.*, v. 23 (26-40), 329-338
Diorchis, 3 spp. in *Fulica atra*, distribution within host intestine in single and mixed in-fections of differing intensity

Intestine, Host

- Pappas, P. W., 1978, *J. Parasitol.*, v. 64 (3), 562-564
Hymenolepis diminuta-infected vs. normal rat small intestine, tryptic and protease activ-ities

Intestine, Host

- Prokopic, J., 1975, *Acta Parasitol. Polon.*, v. 23 (12-25), 271-275
Hymenolepis erinacei, distribution in gut of *Erinaceus europaeus* (exper.)

Intestine, Host

- Przyjalkowski, Z.; and Malinowska, A., 1977, *Acta Parasitol. Polon.*, v. 25 (1-10), 69-77
Trichinella spiralis-infected germfree vs. conventional mice, some metabolites and en-zymes of carbohydrate metabolism in liver and small intestine

Intestine, Host

- de Rezende, J. M.; and Moreira, H., 1975, *Rev. Gastroenterol. Mexico*, v. 40 (1), 12-17
 Chagas disease, humans, megacolon resulting from parasitic infection, diagnosis, clinical management, surgical treatment with the Duhamel-Haddad operation being the preferred surgical method: Goiania, State of Goias

Intestine, Host

- Rhodes, M. B.; et al., 1978, *Exper. Parasitol.*, v. 45 (2), 255-262
Ascaris suum-immunized pigs, specific anti-bodies in isolated intestinal loop washings, identification of other proteins present in these washings

Intestine, Host

- Schanbacher, L. M.; et al., 1978, *Am. J. Phys-iol.*, v. 234 (5), R188-R195
Trichinella spiralis, dogs, changes in in-testinal motility are associated temporally with symptoms related to gastrointestinal tract, magnitude of change is inversely re-lated to resistant state of host

Intestine, Host

- Scofield, A. M., 1978, Comp. Biochem. and Physiol., v. 59B (4), 295-298
Nematospiroides dubius- or *Nippostrongylus brasiliensis*-infected rats, Pasteur effect could not be shown in host jejunum mainly due to reduced rate of anaerobic lactate production, possible relationship of loss of Pasteur effect to immune response

Intestine, Host

- Sharma, B. C.; and Kanwar, D. L., 1975, Rajasthan Med. J., v. 14 (1), 35-37
Ascaris lumbricoides, human infection with approximately 400 worms which caused intestinal obstruction, multiple intestinal perforations and severe peritonitis, clinical case report: India

Intestine, Host

- Shayo, M. E.; and Benz, G. W., 1979, Vet. Parasitol., v. 5 (4), 353-364
Trichostrongylus colubriformis-infected calves (exper.), histopathologic and enzyme histochemical changes in small intestine

Intestine, Host

- Shishova-Kasatochkina, O. A.; and Dubovskaia, A. Ia., 1971, Trudy Gel'mint. Lab., Akad. Nauk SSSR, v. 21, 140-151
 comparison of mechanisms of formation of hydrolytic enzymes in helminth and mammalian intestines, review

Intestine, Host

- Symons, L. E. A., 1978, J. Parasitol., v. 64 (5), 958-959
Nippostrongylus brasiliensis-infected rats, epithelial cell mitosis and morphology in worm-free regions of intestines, results show that changes are not due to mechanical action of parasites but to metabolic or other substances passing down intestinal tract and acting upon zones of proliferation, no change in rate of mitosis in esophagus or convoluted kidney tubules

Intestine, Host

- Tibaldi, T., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 81-84
Schistosoma mansoni, albino mice, intestinal parameters in assessing severity of disease, findings argue for small intestine as valuable organ for pathophysiological studies of acute infection

Intestine, Host

- Tronchin, G.; et al., 1979, J. Parasitol., v. 65 (5), 685-691
Trichinella spiralis, infected mice, mice immunized with metabolic antigens, mice immunized and then infected, kinetics of intestinal cell response (mast cells, leukocytes, polymorphonuclear eosinophils)

Intestine, Host

- de la Vega, J. M., 1973, Rev. Cir. Hosp. Juarez, Mexico (187-188), v. 44, 1972-1973, 22-30
 human intestinal amoebiasis, clinical manifestations, review of presenting forms (ameboma, fulminating forms, acute appendicitis), differential diagnosis, pathology: Mexico

Intestine, Host

- Vengesa, P. B.; and Leese, H. J., 1979, Tr. Roy. Soc. Trop. Med. and Hyg., v. 73 (1), 55-60
Schistosoma mansoni-infected *Mus musculus*, body weight, food intake, small intestinal weight, impaired transport of glucose, 3-O-methylglucose, sorbitol, and fluid, surface appearance of intestinal mucosa

Intestine, Host

- Williams, H. H.; McVicar, A. H.; and Ralph, R., 1970, Symposia Brit. Soc. Parasitol., v. 8, 43-77
 fish helminths, host specificity, body shape and orientation within host gut, habitat specificity and migrations within gut, host alimentary canal physiology

Intestine, Parasite

- Arme, C.; and Walkey, M., 1970, Symposia Brit. Soc. Parasitol., v. 8, 79-101
 physiology of fish parasites, review: chemical composition; physical environmental parameters (salinity, temperature, oxygen tension); nutrition (role of gut, role of tegument); metabolism (carbohydrates, nitrogenous compounds, lipids); growth physiology; host-parasite relations (pathology, host specificity and immunity)

Intestine, Parasite

- Bonner, T. P., 1979, J. Parasitol., v. 65 (5), 745-750
Nippostrongylus brasiliensis, changes in structure of intestinal cells during development from free-living to parasitic stages

Intestine, Parasite

- Burchard, G. D.; Buettner, D. W.; and Bierther, M., 1979, Tropenmed. u. Parasitol., v. 30 (1), 103-112
Onchocerca volvulus, electron microscopy, adult worms, onchocerca-nodules removed from patients

Intestine, Parasite

- Carlisle, S.; and Weisberg, L. S., 1978, Exper. Parasitol., v. 44 (1), 124-135
Schistosoma mansoni-infected mice injected via tail vein with peroxidase and Thorotrast, subsequent appearance of these tracers in worms, results suggest that tegumental and cecal surfaces may exhibit functional specialization in male vs. female worms

Intestine, Parasite

- Chaika, S. Iu., 1977, Tsitologiya, v. 19 (11), 1221-1224
 various blood-sucking arthropods, ultrastructure of glycocalyx of microvilli in midgut, differences among groups

Intestine, Parasite

- Davies, C., 1978, Internat. J. Parasitol., v. 8 (3), 197-206
Fasciola hepatica, metacercariae grown in vitro in 2 different media, ultrastructure of tegument and digestive caeca, comparison with development of these 2 systems during maturation in vivo

- Intestine, Parasite**
 Fournier, A., 1978, *Parasitology*, v. 77 (1), 19-26
Euzetrema knoeppfleri, ultrastructure of digestive caecum, partially haematophagous diet, digestive process, evidence for synchronous cycle of gastroduodenal activity and 'apocrine-like' release of residues of digestion
- Intestine, Parasite**
 Fujino, T.; and Ishii, Y., 1978, *Internat. J. Parasitol.*, v. 8 (2), 139-148
 5 *Paragonimus* spp., comparative ultrastructural topography of gut epithelia
- Intestine, Parasite**
 Fujino, T.; and Ishii, Y., 1979, *Internat. J. Parasitol.*, v. 9 (5), 435-448
 6 spp. of digenetic trematodes, gut epithelia, comparative ultrastructural topography, scanning and transmission electron microscopy
- Intestine, Parasite**
 Gutteikova, A.; and Zmoray, I., 1978, *Biologia, Bratislava*, s. B, *Zool.* (3), v. 33 (8), 627-638
Chabertia ovina, body wall, intestinal cells, ultrastructure, comparison with previously published studies of *Bunostomum trigonocephalum*
- Intestine, Parasite**
 Harpur, R. P., 1977, *Canad. J. Zool.*, v. 55 (7), 1110-1117
Ascaris suum, anatomy of intestine, a three dimensional study with silicone rubber casts
- Intestine, Parasite**
 Kearn, G. C., 1979, *Internat. J. Parasitol.*, v. 9 (6), 545-552
 skin-parasitic monogeneans of fish, occurrence of gut pigment in relation to habitat (host dorsal vs. ventral surface), pigment distribution in upper skin of fish hosts, chemical nature of pigment; *Entobdella soleae* does not contain gut pigment and does not damage host dermis during feeding
- Intestine, Parasite**
 Magzoub, M., 1971, *Sudan Med. J.*, v. 9 (3), 178-182
Schistosoma mansoni, untreated worms and worms treated with ambilhar or astiban, electron microscopy of cuticle, subcuticular region, and gut; possibility that egg formation is interrupted by either treatment
- Intestine, Parasite**
 Nahif, A. A.; and Madel, G., 1975, *Ang. Parasitol.*, v. 16 (4), 220-232
Przhevalskiana silenus, histology of intestinal tract of 3 larval stages described
- Intestine, Parasite**
 Parshad, V. R.; and Guraya, S. S., 1978, *J. Helminth.*, v. 52 (4), 327-333
Cotylophoron cotylophorum, nature of food material, morphology and histochemistry of intestinal caecum, functional significance of surface carbohydrates and hydrolytic enzymes in relation to digestion and absorption of nutrients
- Intestine, Parasite**
 Parshad, V. R.; and Guraya, S. S., 1978, *Ztschr. Parasitenk.*, v. 55 (3), 199-208
Ascaridia galli, morphological and histochemical observations on intestinal epithelium
- Intestine, Parasite**
 Shishova-Kasatochkina, O. A.; and Dubovskaia, A. Ia., 1971, *Trudy Gel'mint. Lab.*, Akad. Nauk SSSR, v. 21, 140-151
 comparison of mechanisms of formation of hydrolytic enzymes in helminth and mammalian intestines, review
- Intestine, Parasite**
 Vincent, A. L.; et al., 1978, *J. Parasitol.*, v. 64 (5), 775-785
Wuchereria bancrofti, infective stage, ultrastructure of anterior alimentary tract, functional implications
- Intestine, Parasite**
 Wilson, R. A.; and Barnes, P. E., 1979, *Parasitology*, v. 78 (3), 295-310
Schistosoma mansoni, protein and polysaccharide/glycoprotein synthesis by epithelial surfaces, autoradiography at light and electron microscope level
- Intestine, Parasite**
 Zmoray, I.; and Gutteikova, A., 1978, *Ang. Parasitol.*, v. 19 (2), 106-111
Heterakis gallinarum, intestinal cells, ultrastructure compared with that of *Ascaridia galli*
- Intrauterine infection.** See Prenatal infection.
- Invasion mechanisms.** [See also Endocytosis; Penetration; Phagocytosis]
- Invasion mechanisms**
 Aikawa, M.; et al., 1978, *J. Cell Biol.*, v. 77 (1), 72-82
Plasmodium knowlesi, invasion of erythrocytes by merozoites investigated by electron microscopy, findings include junction between erythrocytes and merozoites, movement of junction during invasion, and fate of surface coat on merozoites
- Invasion mechanisms**
 Aikawa, M.; and Kilejian, A., 1979, *Lysosomes Applied Biol. and Therap.*, v. 6, 31-48
 parasitic protozoa, invasion procedures and intracellular localization, review: entry into host cell; resistance to intracellular host digestive enzymes; alteration of host cells and utilization of host cell resources
- Invasion mechanisms**
 Ardehali, S. M.; Khoubyar, K.; and Rezai, H. R., 1979, *Acta Trop.*, v. 36 (1), 15-21
Leishmania-macrophage interaction in vitro, effect of cytochalasin B, concluded that infection was by phagocytosis rather than active penetration, cells from outbred mouse strain susceptible to *L. tropica* phagocytosed this species less efficiently than *L. enriettii* or *L. donovani*

Invasion mechanisms

Baker, J. R.; and Liston, A. J., 1978, J. Gen. Microbiol., v. 104 (1), 79-89

Trypanosoma dionisii, effect of various agents (including temperature, complement, trypsin, cytochalasin B and immune plasma) on attachment and entry to mouse peritoneal macrophages in vitro, and subsequent morphogenesis; attachment occurred to non-specific receptors, entry by phagocytosis

Invasion mechanisms

Bannister, L. H., 1979, Proc. Roy. Soc. London, s. B., Biol. Sc. (1155), v. 204, 141-163
intracellular Protista, taxonomic range, location within host cells, host species and host cell specificity, invasion of host cells, methods of evading intracellular destruction by lysosomes, nutrition, effects on structure and composition of host cells, exit from host cell, review

Invasion mechanisms

Chang, K. P., 1978, Am. J. Trop. Med. and Hyg., v. 27 (6), 1084-1096

Leishmania braziliensis-like, entry of promastigotes into human skin fibroblasts in vitro, lack of phagosome-lysosome fusion after entry, transformation into amastigotes, intracellular survival and multiplication; *L. donovani* promastigotes unable to infect human skin fibroblasts in vitro

Invasion mechanisms

Chang, K. P., 1979, Exper. Parasitol., v. 48 (2), 175-189

Leishmania donovani, promastigote-macrophage surface interactions in vitro

Invasion mechanisms

Chang, K. P.; and Dwyer, D. M., 1978, J. Exper. Med., v. 147 (2), 515-530

Leishmania donovani/hamster macrophage interactions in vitro: cell entry, intracellular survival, and multiplication of amastigotes

Invasion mechanisms

Ebert, F.; Buse, E.; and Muehlpfordt, H., 1979, Ztschr. Parasitenk., v. 59 (1), 31-41
Leishmania donovani, virulent vs. avirulent promastigotes in hamster peritoneal macrophages in vitro, attachment, process of engulfment, amastigote multiplication, localization, light and electron microscopy

Invasion mechanisms

Evans, D. A.; and Ellis, D. S., 1978, Tr. Roy. Soc. Trop. Med. and Hyg., v. 72 (6), 653-655
Trypanosoma brucei rhodesiense, evidence of active penetration and passage of trypanosomes across midgut cells of *Glossina morsitans morsitans* rather than passive uptake

Invasion mechanisms

Francis, D. H.; Kinden, D. A.; and Buening, G. M., 1979, Am. J. Vet. Research, v. 40 (6), 777-782

Anaplasma marginale, limiting membrane of anaplasma inclusion body determined to be of erythrocytic origin by immunoferritin labeling, endocytosis seems reasonable mechanism for entry of anaplasma initial body into erythrocyte

Invasion mechanisms

Hirsch, J. G.; Jones, T. C.; and Len, L., 1974, Ciba Found. Symp., n.s. (25), 205-223

Toxoplasma gondii, interactions in vitro with mouse cells, review

Invasion mechanisms

Kipnis, T. L.; Calich, V. L. G.; and Dias da Silva, W., 1979, Parasitology, v. 78 (1), 89-98

Trypanosoma cruzi, trypomastigote bloodstream forms of Y and CL stock, uptake by mouse peritoneal macrophages and intracellular differentiation and multiplication in vitro under a variety of conditions, results confirm that epimastigote culture forms are phagocytosed and suggest that bloodstream forms penetrate actively into macrophages

Invasion mechanisms

Kongtong, P.; and Inoki, S., 1975, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 24 (5), 284-293

Trypanosoma cruzi, trypomastigotes, epimastigotes, method of entry into fibroblast cells and intracellular development, scanning electron microscopy

Invasion mechanisms

Langreth, S. G.; Nguyen-Dinh, P.; and Trager, W., 1978, Exper. Parasitol., v. 46 (2), 235-238
Plasmodium falciparum, fine structure of merozoite invasion of human erythrocytes in vitro, successful invasion after 3 hr in presence of concentration of chloroquine harmful to feeding stages

Invasion mechanisms

Loker, E. S., 1978, Exper. Parasitol., v. 45 (1), 65-73

Schistosomatum douthitti, effect of age and of size of *Lymnaea catascopium* on miracidium-snail interactions and on susceptibility to infection, ingestion of miracidia and their subsequent penetration through esophageal wall, miracidial penetration of external snail surfaces was rare

Invasion mechanisms

McLaren, D. J.; et al., 1979, Parasitology, v. 79 (1), 125-139

Plasmodium knowlesi, interaction between malaria parasite and host erythrocyte, freeze fracture studies of internal cytoarchitecture of surface membranes

Invasion mechanisms

Miller, L.; et al., 1979, J. Exper. Med., v. 149 (1), 172-184

Plasmodium knowlesi, interaction between cytochalasin B-treated merozoites and erythrocytes, attachment and junction formation, results suggest that defect in invasion of Duffy-negative RBCs is at the step of junction formation

Invasion mechanisms

Morera, P.; Arroyo, R.; and Solano, E., 1977, Rev. Biol. Trop., v. 25 (2), 257-261

Angiostrongylus costaricensis in *Sigmodon hispidus*, routes of infection compared (intraperitoneal, oral, and subcutaneous)

Invasion mechanisms

- Nguyen, B. T.; and Stadtsbaeder, S., 1979, Ztschr. Parasitenk., v. 60 (2), 135-146
Toxoplasma gondii, trophozoites, modes of entry into normal mouse peritoneal macrophage and HeLa cell monolayers, phase-contrast microcinematography

Invasion mechanisms

- O'Daly, J. A.; and Aso, P. M., 1979, Exper. Parasitol., v. 47 (2), 222-231
Trypanosoma cruzi, *Leishmania* spp., factor in cell-free extracts that induces lysis of mammalian red cells and Vero cells, postulated that this lytic factor is involved in penetration and damage produced by *T. cruzi* in vertebrate cells

Invasion mechanisms

- Poels, L. G.; van Niekerk, C. C.; and Franken, M. A. M., 1978, Israel J. Med. Sc., v. 14 (5), 575-581
Plasmodium berghei, mice, immunization, possible role of plasmodial antigens exposed on surface of infected reticulocytes in induction of protective immunity, observations on entry of parasites into red blood cells, symposium presentation

Invasion mechanisms

- Ryning, F. W.; and Remington, J. S., 1978, Infect. and Immun., v. 20 (3), 739-743
Toxoplasma gondii, effect of cytochalasin D on entry into mononuclear phagocytes and into cells generally not considered to be phagocytes, results support concept that host cells actively participate in process by which *Toxoplasma* gains entry into cells

Invasion mechanisms

- Schupp, E.; et al., 1978, Ztschr. Parasitenk., v. 55 (3), 189-193
Toxoplasma gondii, in vitro invasion of mouse erythrocytes, electron microscopy, sequence of events led to assumption of parasite actively penetrating non-phagocytic host cell

Invasion mechanisms

- Stoicescu, V., 1977, Arch. Roumaines Path. Exper. Microbiol., v. 36 (3-4), 301-306
Pneumocystis carinii, 2-month-old human (lung parenchyma, lumen of capillaries), pathology, possible invasion of lung parenchyma by trophozoites conveyed by blood

Invasion mechanisms

- Takeuchi, T., 1977, Kiseichugaku Zasshi (Japan. J. Parasitol.), v. 26 (2), 75-85
Toxoplasma gondii, mechanism of entry into host cells, ultrastructural study

Invasion mechanisms

- Yousif, F.; and Laemmler, G., 1977, Ztschr. Parasitenk., v. 53 (2), 247-250
Angiostrongylus cantonensis larvae, higher numbers infected host *Biomphalaria glabrata* by oral route (ingestion) than by skin penetration; higher percentages found in mantle collar and muscular part of host body

Invasion mechanisms

- Zenian, A.; Rowles, P.; and Gingell, D., 1979, J. Cell Sc., v. 39, 187-199
Leishmania tropica, uptake of promastigotes by macrophages, scanning electron microscopy, invasion is through phagocytosis rather than penetration

Iowa. See United States, Iowa.

Iran

- Farhang-Azad, A., 1972, Parazitologia, Leningrad, v. 6 (6), 513-521
 flea fauna of Iran, systematic list, distribution within 11 provinces, known occurrence on mammalian hosts

Iran

- Farid, H.; and Jalayer, T., 1978, J. Parasitol., v. 64 (2), 364
 intestinal parasites, schoolchildren, host sex: Isfahan, Central Iran
 (*Ascaris lumbricoides*; *Trichuris trichiura*; *Trichostrongylus* spp.; *Hymenolepis nana*)

Iran

- Nagaty, H. F.; Elahi, R.; and Mohajeri, M., 1978, Ann. Trop. Med. and Parasitol., v. 72 (4), 369-375
 parasitic infections, survey of 11,986 patients, incidence by age and sex: State of Khorasan (mostly from Mash'ad), N.E. Iran
 (*Plasmodium vivax*; *P. falciparum*; *P. malariae*; *Leishmania tropica*; *Entamoeba histolytica*; *E. coli*; *Giardia lamblia*; *Chilomastix mesnili*; *Trichomonas intestinalis*; *Ascaris lumbricoides*; *Enterobius vermicularis*; *Trichuris trichiura*; *Necator americanus*; hookworms; *Trichostrongylus* sp.; *Strongyloides stercoralis*; *Hymenolepis nana*; *Taenia saginata*; *Sarcoptes scabiei*; *Demodex folliculorum*; *Isospora belli*; *Balantidium coli*; *Entamoeba hartmanni*; *Dientamoeba fragilis*; *Endolimax nana*; *Iodamoeba buetschlii*; *Bodo caudatus*; *Trichomonas vaginalis*; *Schistosoma haematobium*)

Iran

- Nagaty, H. F.; Mohajeri, M.; and Elahi, R., 1978, J. Trop. Med. and Hyg., v. 81 (10), 195-197
 parasites, people: Khorasan, Iran
 (*Ascaris lumbricoides*; *Giardia lamblia*; *Entamoeba coli*; *Hymenolepis nana*; *Enterobius*; *Trichuris trichiura*; *Trichomonas hominis*)

Irian Barat. See Indonesia, New Guinea.Irradiation. See Radiation.

Irrigation

- Biswas, A. K., 1978, Water Supply & Management, v. 2 (4), 283-297
 discussion on environmental implications of water development for developing countries: possibility of decreased human parasitism by improving potable water and by reducing human contacts with vectors of water-borne or water-based infections, also possibility of spread of parasitism through development of irrigation canals

Irrigation

- Bullick, G. R.; and Andersen, F. L., 1978, Great Basin Nat., v. 38 (4), 369-378
Haemonchus contortus, survival of third-stage larvae on irrigated vs. nonirrigated experimental pasture plots: Provo, Utah

Irrigation

- Gadzhiev, Ia. G.; et al., 1977, Veterinariia, Moskva (5), 63-64
Fasciola gigantica, cattle, acute infection outbreak, related to increased *Lymnaea auricularia* population in newly irrigated area: Azerbaidzhan SSR

Irrigation

- Khizhniak, N. I., 1977, Gig. i Sanitariia (12), 76-78
 ascarid eggs from swine used in test of extent of spreading of helminth eggs by sewage used for pasture irrigation, various sprinkler apparatuses

Irrigation

- Marzochi, M. C. de A., 1970, Rev. Inst. Med. Trop. S. Paulo, v. 12 (4), 249-256
 human intestinal parasites, eggs and cysts from water used to irrigate vegetable gardens, increased risk of crop contamination in dry season: Ribeirao Preto, Sao Paulo, Brazil

Irrigation

- Meek, A. H.; and Morris, R. S., 1979, Austral. Vet. J., v. 55 (8), 365-369
Fasciola hepatica, sheep grazing on irrigated vs. non-irrigated pastures, temporal distribution of acquisition of infection, influence of infection on productivity, outline of suitable treatment regimen: northern Victoria

Irrigation

- Nikitin, V. F., 1978, Veterinariia, Moskva (7), 59-61
 helminths, cattle on irrigated pastures, occurrence, control measures: Moskovsk, Rostovsk, and Tambovsk oblasts

Irrigation

- Norman, L. M.; and Hohenboken, W., 1979, J. Animal Sc., v. 48 (6), 1329-1337
 parasites, foot soundness, and attrition, crossbred ewes, genetic and environmental effects (irrigated vs. nonirrigated pastures): western Oregon

Isoelectric focusing. See Electrophoresis.

Isoenzymes. See Enzymes.

Israel

- Costin, C., 1978, Israel J. Med. Sc., v. 14 (5), 521-522
 malaria surveillance in Israel, symposium presentation

Israel

- Greenblatt, C. L., 1978, Israel J. Med. Sc., v. 14 (5), 508-517
 historical review of antimalarial campaign in Palestine and Israel, symposium presentation

Israel

- Saliternik, Z., 1978, Israel J. Med. Sc., v. 14 (5), 518-520
 reminiscences of history of malaria eradication in Palestine and Israel, symposium presentation

Israel

- Yekutieli, P., 1979, Israel J. Med. Sc., v. 15 (12), 976-982
 infective diseases in Israel, changing patterns over 30 years, includes malaria, leishmaniasis, tick and flea borne infections

Italy

- Benatti, C.; and Tampieri, M. P., 1977, Suinicultura, v. 18 (11), 49-52
 survey of gastrointestinal nematodes, pigs (feces): Province of Mantova, Italy
(Strongyloides westeri; S. ransomi; Ascarops strongylina; Physoccephalus sexalatus; Trichostrongylus colubriformis; T. axei; Oesophagostomum dentatum; O. brevicaudum; O. longicaudum; Hyostrongylus rubidum; Ascaris suum; Trichuris suis; Macracanthorinchus hirudinaeus)

Italy

- Guizzard, F.; Gatti, R.; and Tenca, L., 1979, Riv. Zootecn. e Vet. (2), 78-80
 intestinal parasites: province and city of Mantova
(T. leonina; T. canis; ascaridi; Trichuris; ancylostomi; tenie; coccidi)

Italy

- Tarsitani, G.; et al., 1979, Nuovi Ann. Ig. e Microbiol., v. 30 (2), 197-206
 parasites of children, prevalence factors (age, sex, socio-economic class, crowding): Rome, Italy
(Enterobius vermicularis; Trichuris trichiura; Ascaris lumbricoides; Giardia intestinalis)

Italy, Sardinia

- Lippi, M.; Balestrieri, A.; and Medda, A., 1974, Rassegna Med. Sarda, v. 77, n.s., v. 26 (1), 45-62
 survey, intestinal parasites of children and juveniles of a small Sardinian village
(Enterobius vermicularis; Hymenolepis nana; Trichuris trichiura; H. heterophies; S. stercoralis; A. lumbricoides)

Ivory Coast

- Mishra, G. S.; and N'Depo, A. E., 1978, Rev. Elevage et Med. Vet. Pays Trop., n. s., v. 31 (4), 431-436
 larval cestodes in food animals, abattoir survey: Abidjan, Cote-d'Ivoire

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